

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES	
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. <i>(If applicable)</i>	
6. ISSUED BY		CODE		7. ADMINISTERED BY <i>(If other than Item 6)</i>		CODE	
8. NAME AND ADDRESS OF CONTRACTOR <i>(No., street, county, State and ZIP Code)</i>				(X)		9A. AMENDMENT OF SOLICITATION NO.	
						9B. DATED <i>(SEE ITEM 11)</i>	
						10A. MODIFICATION OF CONTRACT/ORDER NO.	
						10B. DATED <i>(SEE ITEM 11)</i>	
CODE		FACILITY CODE					

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

- ☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
- (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA *(If required)*

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: <i>(Specify authority)</i> THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES <i>(such as changes in paying office, appropriation date, etc.)</i> SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER <i>(Specify type of modification and authority)</i>

E. IMPORTANT: Contractor ☐ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION *(Organized by UCF section headings, including solicitation/contract subject matter where feasible.)*

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER <i>(Type or print)</i>		16A. NAME AND TITLE OF CONTRACTING OFFICER <i>(Type or print)</i>	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
<i>(Signature of person authorized to sign)</i>		<i>(Signature of Contracting Officer)</i>	

Item 14. Continued.

CHANGES TO VOLUME I BIDDING REQUIREMENTS, CONTRACT FORMS, AND CONDITIONS OF THE CONTRACT

1. Standard Form 1442, Item 13.A. – The New time and date for Receipt of Revised Proposal is established to be **1630 local time, 5 June 2002.**
2. Replace the Price Proposal Schedule, pages 00010-1 through 00010-4, with the accompanying new Price Proposal Schedule, pages 00010-1 through 00010-5, bearing the notation "ACCOMPANYING AMENDMENT NO. 0010 TO SOLICITATION NO. DACA63-02-R-0001."
3. Replacement Sections - Replace the following section with the accompanying new section of the same number and title, bearing the notation "ACCOMPANYING AMENDMENT NO. 0010 TO SOLICITATION NO. DACA63-02-R-0001:"

SECTION 00120 PROPOSAL SUBMISSION REQUIREMENTS
SECTION 00710 WAGE RATES

CHANGES TO VOLUME II DESIGN REQUIREMENTS

4. Volume II Design and Performance Requirements - Replace the following chapters with the accompanying new chapters of the same number and title, each bearing the notation "ACCOMPANYING AMENDMENT NO. 0010 TO SOLICITATION NO. DACA63-02-R-0001:"

CHAPTER 111 - FACILITY PERFORMANCE
CHAPTER B – SHELL
CHAPTER B22 - EXTERIOR WINDOWS AND OTHER OPENINGS
CHAPTER D3 - HVAC - HEATING, VENTILATING, AND AIR CONDITIONING
CHAPTER D5 - ELECTRICAL POWER
CHAPTER D6 - ARTIFICIAL LIGHTING
CHAPTER D71 - VOICE AND DATA
CHAPTER G – SITEWORK
CHAPTER G2 - SITE IMPROVEMENTS
CHAPTER G22 - SITE FIXTURES AND EQUIPMENT

CHANGES TO VOLUME III SPECIFICATIONS

5. Replacement Sections - Replace the following section with the accompanying new section of the same number and title, bearing the notation "ACCOMPANYING AMENDMENT NO. 0010 TO SOLICITATION NO. DACA63-02-R-0001:"

SECTION 01016 DESIGN DOCUMENT REQUIREMENTS
SECTION 01770 CONTRACT CLOSEOUT

CHANGES TO VOLUME IV ATTACHMENTS

6. Replace ATTACHMENT B – Functional Requirements with the accompanying new ATTACHMENT B – Functional Requirements, bearing the notation "ACCOMPANYING AMENDMENT NO. 0010 TO SOLICITATION NO. DACA63-02-R-0001." The changes are:

Page

- 1 Command Section (Replacement Page)
- 9 Garrison Command Section (Replacement Page)
- 12 Internal Review and Audit Compliance (IRACO) (Replacement Page)
- 19 Directorate of Information Management (DOIM) (Replacement Page)
- 22 Directorate of Public Works (DPW) (Replacement Page)
- 25 Directorate of Contracting (DOC) (Replacement Page)
- 29 Civilian Personnel (CPAC) (Replacement Page)
- 32 Directorate of Community and Family Activities (DCFA) (Replacement Page)
- 34 G3-Training-Emergency Operation Center (G3/DPTMS-EOC) (Replacement Page)
- 37 Quality & Assurance (Q & A) (Deleted Page)
- 48 Weight/Training Room (Deleted Page)
- 52 Main Entrance/Lobby (Replacement Page)
- 60 Chaplain (New Page)

7. Delete "ATTACHMENT C – RELATIONSHIP MATRIX"

CHANGES TO THE DRAWINGS

8. Replacement Drawings (Volume IV, Attachment Q)- Replace the following New Work drawings listed below with the attached new drawings of the same number, bearing the notation "AM #0010":

a-102.pdf	a-102	ENLARGED SITE PLAN
a-103.pdf	a-103	FIRST FLOOR PLAN
a-104.pdf	a-104	SECOND FLOOR PLAN
a-105.pdf	a-105	THIRD FLOOR PLAN
a-106.pdf	a-106	FOURTH FLOOR PLAN
a-107.pdf	a-107	FIFTH FLOOR PLAN
a-108.pdf	a-108	STACKING DIAGRAM

The CADD .dgn files for drawings a-103 through a-108 accompany the amendment.

END OF AMENDMENT

ACCOMPANYING AMENDMENT NO. 0010 TO SOLICITATION NO. DACA63-02-R-0001
D-B Bldg 350 Conversion, JRTC & Ft Polk Hdqtrs FP350

Design-Build Building 350 Conversion, JRTC and Fort Polk Headquarters
Fort Polk, Louisiana

Solicitation No.DACA63-02-R-0001

PRICE PROPOSAL SCHEDULE
(To be attached to SF 1442)

BASE BID: All work required by the Contract documents for the design and construction of the Building 350 Conversion to JRTC and Fort Polk Headquarters exclusive of work required by Option Bid Items.

Item No.	Description	Estimated Quantity	Unit	Unit Price	Estimated Amount
0001	All work to design <u>(including design required for all Options) AM#0008</u> and construct the renovation of Building 350 Conversion, Complete, Including utilities to the 5 foot line but exclusive of all work listed separately.				
		Sum	Job	***	\$_____
0002	Construct all Exterior Work outside the building's 5 foot line (Including utilities to the Fort Polk utility tie-in, earthwork, paving sidewalk, parking lot paving, curb and gutter, turfing, landscaping, helipad, and all other work not listed separately)				
		Sum	Job	***	\$_____
0003	All work for the demolition and hazardous materials abatement				
		Sum	Job	***	\$_____
0004	Final Record Drawings				
		Sum	Job	***	\$ <u>25,000.00</u>

TOTAL BASE BID \$_____

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D-B Bldg 350 Conversion, JRTC & Ft Polk Hdqtrs FP350

Design-Build Building 350 Conversion, JRTC and Fort Polk Headquarters
Fort Polk, Louisiana

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PRICE PROPOSAL SCHEDULE

[AM#0006]

0005 OPTION NO. 1:

0005AA Additional cost for all work required by the Contract documents for
Furniture Procurement and Installation in the following areas:
Command Section, to include Command Conference Room and Pre-Assembly Area,
Protocol, Garrison Command Section, and Field Officer of the Day Area.

	Sum	Job	***	\$215,000.00
<u>0005AB</u>	Contractor's markup on furniture ____%			
	Sum	Job	***	\$_____

TOTAL OPTION NO. 1 \$_____

[AM#0008]

0006 OPTION NO. 2:

0006AA Additional cost for all work required by the Contract documents for
Furniture Procurement and Installation in all areas not listed in
Option No. 1.

	Sum	Job	***	\$1,000,000.00
<u>0006AB</u>	Contractor's markup on furniture ____%			
	Sum	Job	***	\$_____

TOTAL OPTION NO. 2 \$_____

[AM#0010]

0007 OPTION NO. 3:

Additional cost for all construction work required by the Contract
documents for improvements to the existing Parking Lot at the
corner of Corps Road and Patterson Road.

	Sum	Job	***	\$_____
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TOTAL OPTION NO. 3 \$_____

TOTAL BID (BASE BID PLUS OPTION NOS. 1, 2 AND 3) \$_____

ACCOMPANYING AMENDMENT NO. 0010 TO SOLICITATION NO. DACA63-02-R-0001
D-B Bldg 350 Conversion, JRTC & Ft Polk Hdqtrs FP350

Design-Build Building 350 Conversion, JRTC and Fort Polk Headquarters
Fort Polk, Louisiana

Solicitation No.DACA63-02-R-0001

PRICE PROPOSAL SCHEDULE

[AM#0010]

0008 The monetary value for warranty work is established at 1 percent of the amount awarded for construction. See the Contract Specifications Section 01770 CONTRACT CLOSEOUT, paragraph "Contractor's Response to Construction Warranty Service Requirements."

0009 Completion Time for all work (not to exceed the maximum time stated in Section 01000 DESIGN AND CONSTRUCTION SCHEDULE)

PROJECT COMPLETION TIME: _____ Calendar Days

Design-Build Building 350 Conversion, JRTC and Fort Polk Headquarters
Fort Polk, Louisiana

Solicitation No.DACA63-02-R-0001

PRICE PROPOSAL SCHEDULE

NOTES:

1. ARITHMETIC DISCREPANCIES (EFARS 14.407-2)

(a) For the purpose of initial evaluation of bids, the following will be utilized in resolving arithmetic discrepancies found on the face of the bidding schedule as submitted by bidders:

- (1) Obviously misplaced decimal points will be corrected;
- (2) In case of discrepancy between unit price and extended price, the unit price will govern;
- (3) Apparent errors in extension of unit prices will be corrected; and
- (4) Apparent errors in addition of lump-sum and extended prices will be corrected.

(b) For the purpose of bid evaluation, the Government will proceed on the assumption that the bidder intends his bid to be evaluated on the basis of the unit prices, the totals arrived at by resolution of arithmetic discrepancies as provided above and the bid will be so reflected on the abstract of bids.

(c) These correction procedures shall not be used to resolve any ambiguity concerning which bid is low.

2. If a modification to a bid based on unit prices is submitted, which provides for a lump sum adjustment to the total estimated cost, the application of the lump sum adjustment to each unit price in the bid schedule must be stated. If it is not stated, the bidder agrees that the lump sum adjustment shall be applied on a pro rata basis to every unit price in the bid schedule.

3. Bidders must bid on all items.

4. Costs attributable to Division 01 - General Requirements are assumed to be prorated among bid items listed.

5. Responders are advised that this requirement may be delayed, cancelled or revised at any time during the solicitation, selection, evaluation, negotiation and/or final award process based on decisions related to DOD changes in force structure and disposition of the Armed Forces.

Design-Build Building 350 Conversion, JRTC and Fort Polk Headquarters
Fort Polk, Louisiana

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PRICE PROPOSAL SCHEDULE

NOTE: (cont)

6. EXERCISE OF OPTIONS (SWDR 715-1-1 (16 January 1996))

The Government reserves the right to exercise the option(s) by written notice to the Contractor either singularly or in any combination for up to 180 calendar days after award of the Base Bid without an increase in the Offeror's Bid Price. Completion of added items shall continue at the same schedule as the Base Bid unless otherwise noted in Section 01000 DESIGN AND CONSTRUCTION SCHEDULE, paragraph 1 entitled SCHEDULE.

7. The Army will procure this facility through a design and cost competition in accordance with the provisions set forth in this Request for Proposals (RFP). When a contract is awarded, it will be a "Firm Fixed Price Contract."

[AM#0008] [AM#0010]

8. The Congress, in authorizing and funding this contract, has established certain cost limitations for the project. The current authorization for the complete design and construction of this project is \$9,350,000 [AM#0010].

This authorization amount only applies to the Base Bid and Option Nos. 1 and 3. Option No. 2 will be separately funded and is not included in the above authorization. Proposals that exceed this funding limit after exercising Option Nos. 1 and 3 may be rejected. Submission of desirable alternative features exceeding minimum requirements may be considered as long as award can be made within the established funds.

9. Any proposal that is materially unbalanced as to prices for the Base Schedule may be rejected. An unbalanced proposal is one that is based on prices significantly less than the cost for some work and prices that are significantly overstated for other work and can also exist where only overpricing or underpricing exists.

[AM#0008]

10. Allowances of [AM#0006]\$215,000.00 [AM#0008] and \$1,000,000.00 has been set in the Price Proposal Schedule for **Option Nos. 1 and 2, respectively, for bidding purposes. These amounts will be adjusted upward or downward by modification based on the actual invoice amounts from the furniture supplier/installer for the furniture provided and installed. The Contractor's markup shall be limited to the percentages originally bid, with the actual dollar amounts adjusted upward or downward based on the actual invoice amounts.**

END OF BIDDING SCHEDULE

SECTION 00120
PROPOSAL SUBMISSION REQUIREMENTS
09/01

1 GENERAL

1.1 INTRODUCTION

Through the use of a two-phase procurement process, the Department of the Army desires to obtain the design and construction of the Joint Readiness Training Center (JRTC)/Fort Polk Headquarters, Fort Polk, Louisiana. In this procurement procedure consideration will be given initially to the Project Organization and Personnel; Experience; Past Performance; and Financial Capacity. The offerors that are rated the highest on the Phase I evaluation criteria, minimum of two (2) but no more than five (5), will be selected and given the opportunity to offer their preliminary design and cost proposals in Phase II. Final selection and basis for award of the Design/Build Contract will be on the basis of qualifications, technical quality, price, and other salient factors considered to be in the Government's best interests. If awarded the contract, the offeror shall complete the design and construction documents and construct the facility in compliance with these completed requirements.

1.2 WHERE AND WHEN TO SUBMIT PROPOSAL

Submit Phase I of the Proposal no later than the date and time indicated in Item 13.A of the Solicitation, Offer and Award form (Standard Form 1442) found in Section 00010, SOLICITATION, OFFER, AND AWARD. Offerors invited to participate in Phase II will be notified of the date and time for submission of their Phase II proposal.

1.3 EXPLANATION TO PROSPECTIVE OFFERORS

Any prospective offeror desiring an explanation or interpretation of the solicitation, drawing, specifications, etc. must request in writing and shall be directed to the individuals listed in Section 00100 INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS, soon enough to allow a reply to reach all prospective offerors before the submission of their proposals. Oral explanation/instructions given before award of a contract will not be binding. Any information given a prospective offeror concerning a solicitation will be furnished promptly to all other prospective offerors as an amendment to the solicitation, if that information is necessary for submitting proposals, or if the lack of it would be prejudicial to other prospective offerors.

1.4 REQUIRED TECHNICAL DATA FOR PROPOSAL SUBMISSION

Offerors are advised that the required data will be utilized for review and evaluation and used for determination of a "Quality Rating" by a Technical Evaluation Board and that all data submitted for consideration under this proposal will be reviewed only for the purposes required for evaluation and award. The Government will not make assumptions concerning the offeror's intent, capabilities, facilities, or experiences. Clear identification is the sole responsibility of the offeror.

1.5 PROPOSAL PREPARATION

Instructions for the preparation and organization of each proposal are included herein. The proposal shall be submitted as summarized below and as required by the specifications.

1.5.1 Phase I – Management/Technical Proposal

- A. Project Organization and Personnel**
- B. Experience**
- C. Past Performance**
- D. Financial Capacity**

1.5.2 Phase II – Design and Cost/Price Proposal

A. Design Proposal (Volume I)

- **Preliminary Project Schedule (Volume I)**
- **Cost/Price Proposal (Volume II)**

1.5.3 Format

1.5.3.1 Written Material

a. All written material, including catalog cuts, shall be submitted in standard three ring loose-leaf binders. Proposals shall be tabbed and labeled in a manner to afford easy identification from a Table of Contents. Font size shall be not less than 10 point. Each page shall be identified with the appropriate page number centered at the bottom of the page. Sheet size of the proposal contents shall be 8 ½ by 11 inches. 11 by 17 inch sheets will be allowed for charts and tables but will be counted as 2 single-sided or 4 double-sided pages. Legibility, clarity, coherence, and the contents are important. The Phase I (Management/Technical) proposal length shall be limited to **(AM#2) 70** single-sided or **(AM#2) 35** double-sided pages, exclusive of the cover sheet, **Table of Contents, and appendices (AM#2)**. The offeror shall not submit verbatim sections or attachments of this solicitation as part of their proposal. Offers that do not meet these requirements may be subject to rejection.

b. A cover sheet identifying the offeror and the project shall be provided. The second sheet shall be a Table of Contents.

c. Table of Contents. The proposal shall contain a detailed Table of Contents. The complete Table of Contents shall be included in each binder used.

d. Materials submitted but not required by this solicitation (such as company brochures and equipment lists) shall be relegated to appendices.

e. Proposal revisions for written portions of the proposal, including catalog cuts and specifications, shall be submitted as page replacements with revised text readily identifiable, e.g. bold face print or underlined. The source of the revision, e.g. Error, Omission, or Clarification (EOC), amendment or other Contractor-initiated change, shall also be indicated for each revision. Revised pages shall be numbered, dated, submitted in same number of copies as the original proposal submittal, and a different color page than the original.

1.5.3.2 Drawings

a. Full size drawings shall be submitted in accordance with Section 1016, DESIGN DOCUMENT REQUIREMENTS. Each drawing shall be identified with the appropriate Sequence and Sheet Numbers in the lower right hand corner. The original and one copy of all drawings must be full size drawings. The remaining copies may be full size or reduced size, but no smaller than 11 x 17 inches.

b. All alternate designs which may or may not be priced as additive or deductive items shall be graphically described on separate drawings from the base proposal design. All alternate designs shall meet the minimum requirements of the solicitation.

c. Proposal revisions for drawings shall be submitted as sheet replacements with all changes identified on the drawings with clouds and in the title block, including the source of the revision, e.g. Error, Omission, or Clarification (EOC), amendment or other Contractor-initiated change. Revised drawings shall be numbered, dated and submitted in the same number of copies as the original proposal submittal.

1.5.3.3 Electronic Material

The offeror shall submit one copy of the proposal and **(AM#2) all revisions**, if applicable, on CD-ROM. All textual material, catalog cuts, and other non-drawing material shall be in Adobe Acrobat Portable Document

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Format (.pdf) (AM#2) , **arranged in the same order as the hard copy version with each section or part bookmarked.** All drawings shall be formatted in accordance with Section 1016, Paragraph “.CAL Files.”

The offeror must ensure that all textual material, if it has been scanned, has been converted to a text searchable document by using the Paper Capture tool in Adobe Acrobat.

1.5.4 Proposal Submission

The proposal submitted shall include an original, copies as indicated below, and one electronic copy on CD-ROM (Both Volumes of Phase II may be on the same CD-ROM.) Each proposal shall be marked to clearly identify the original and the copies. The copies shall be numbered. Volume II of Phase II shall be sealed in a single package separate from Volume I.

Phase I – Management/Technical Proposal	Original and nine (9) copies
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Phase II – Design Proposal	
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Volume I	Original and nine (9) copies
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Volume II	Original and one (1) copy
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1.6 REFERENCED PUBLICATIONS

Corps of Engineers' (COE) design criteria and manuals that are referenced in this solicitation, such as Technical Manuals (TM) and Instructions (TI), Military Handbooks, Engineering Regulations (ER), and Engineering Manuals (EM), can be downloaded from the Internet at the following address: <http://www.hnd.usace.army.mil/techinfo> or obtained from the current National Institute of Building Science's (NIB) Construction Criteria Base (CCB) CD-ROM disk. The COE SWD-AEIM, AR 190-51, and EC 1110-1-92 are on the Solicitation CD-ROM Disk. The Installation Information Infrastructure Architecture (I3A) guidelines can be downloaded from the Internet at the following address: <http://arch-odisc4.army.mil/>. Obtaining other referenced publications such as Federal and Military specifications, Military Standards, and industry standards (i.e., ASTM, ANSI, ACI, NFPA, Uniform Building Code) will be the responsibility of each offeror. See Section 00100, paragraph "52.211-2

AVAILABILITY OF SPECIFICATIONS LISTED IN THE DOD INDEX OF SPECIFICATIONS AND STANDARDS (DODISS) AND DESCRIPTIONS LISTED IN THE ACQUISITION MANAGEMENT SYSTEMS AND DATA REQUIREMENTS CONTROL LIST, DOD 5010.12-L (AUG 1998)", for information on obtaining these publications. Offerors are warned that due to the limited time for proposal preparation and submittal, there may not be enough time for ordering and receiving any of the above references. Failure to receive requested references will not be sufficient reason for extension of the proposal submission date.

1.7 UNNECESSARILY ELABORATE PROPOSALS OR QUOTATIONS

Unnecessarily elaborate brochures or other presentations beyond those sufficient to present a complete and effective response to this solicitation are not desired and may be construed as an indication of the offeror's lack of cost consciousness. Elaborate artwork, expensive paper and bindings, and expensive visual and other presentation aids are neither necessary nor wanted.

1.8 REQUIREMENT FOR SPECIAL MARKING OF PROPOSAL DATA

Envelopes or other cover for material submitted in response to this RFP shall be opaque, and must be so presented that they may easily be identified. At a minimum, the outside cover for each phase must show:

Destination of Proposal

Name and location of project as described in the RFP documents

Solicitation number

Name and address of offeror

Project phase and volume number

Submit the proposal in the format specified. Oral or telephonic proposals or modifications will not be considered.

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Mail or deliver the proposal to the address listed on the Standard Form 1442, "Solicitation, Offer and Award."

1.9 DESCRIPTION OF EVALUATION CRITERIA

1.9.1 Phase I – Management/Technical Proposal Preparation

The Management/Technical proposal shall include information as described below and shall be presented in the sequence listed.

A. Project Organization and Personnel:

1. Personnel (Prime and Subcontractor):

a. Provide professional resume data on the individuals who will be key personnel on the project team. Key personnel identified in this section should be senior working-level people who will be involved in design and construction on a day-to-day basis, as opposed to departmental level supervisors or executives. If reassignment of personnel is considered possible, provide the names and resumes of the alternate professionals in each assignment.

See Sections 01015, 01320, 01430, and 01451 for minimum personnel qualifications. The following list shall be provided as a minimum:

Project Manager
Project Architect
Senior Structural Engineer
Senior Mechanical Engineer
Senior Electrical Engineer
Senior Civil Engineer
Fire Protection Engineer
Registered Communication Distribution Designer
Industrial Hygienist
Design Quality Control Manager
Construction Quality Control Manager
Project Scheduler

Information to be provided includes:

Name
Project assignment
Name of firm with which associated
Years experience: with this firm, with other firms
Education: degrees(s)/year/specialization
Active registration: state and year first registered
Experience and qualifications relevant to proposed project: for each project listed, provide project description, project dates, the individual's project assignment to include specific roles and responsibilities, and its relevance to this solicitation.

b. Identify the Designer(s)-of-Record for each discipline

c. (AM#2) **In an appendix, provide** letters of commitment for all key personnel on the project team and any proposed alternate personnel. By identifying these personnel, the offeror is making a commitment that, barring unforeseen circumstances, they are the personnel who will be assigned to the project. A letter of commitment from each firm committing specific individuals from the firm may be provided in lieu of separate letters for each individual.

d. Capacity to Perform

(1) Provide a list of key professional job titles. Indicate the total number of personnel in each category for the prime, major subcontractors and consultants on the team and the number of personnel in each category who will be assigned to this project.

(2) (AM#2) _____. Discuss capacity to successfully perform the requirements of this contract based on current workload and staffing. Discuss strategy to provide supplemental and/or replacement personnel to support this project during design and/or construction, as necessary. (AM#2) **In the appendix, provide a list of all current contracts for the prime contractor, major subcontractors and consultants on the team.**

2. Team Organization and Management:

- a. Provide an organizational chart and supporting narrative describing how the team will be structured. Include all key design and construction personnel and firms on the organizational chart. Discuss the specific roles and responsibilities of each key individual and firm.
- b. Describe the proposed management structure for the team. Discuss how the design and construction process will be managed, to include a discussion on delegation of authority within the team.
- c. Describe interactions within the team and with the Corps of Engineers during design. Discuss how design changes will be handled and the roles that various team members will play when dealing with design changes. Discuss the role of construction team members during design phase.
- d. Describe interactions within the team and with the Corps of Engineers during construction. Discuss how changes will be handled during construction and the roles that various team members will play when dealing with changes during construction. Discuss the role of design team members during construction. Specifically address design team's role in construction Quality Control program; RFI's; shop drawing/submittal review and approval; attending progress meetings; site visits; inspections; contract completion and closeout.
- e. Describe the time control systems to be utilized. Discuss the use of the project schedule for managing the design and construction. Describe internal procedures for handling delays to minimize time growth.
- f. Identify the items of work to be self-performed by offeror and the percentage of the overall contract value that this work represents.
- g. Describe the team's computer-aided drafting and design (CADD) capabilities. Identify the CADD software to be used in the design of this project; if all disciplines are not using the same CADD software, identify the software that each discipline is using. Discuss compatibility with the Government's target CADD. Explain how compatibility will be achieved if the design, or portion of the design, is prepared using a CADD system other than the Government's target CADD system. (Refer to Section 01016 for information on the Government's target CADD system and compatibility requirements.)

B. Experience

1. Provide a list of projects currently underway or completed within the last 5 years that best demonstrates the design and construction experience of the team (firms and/or individual team members) to successfully complete this facility using a design/build process. Experience beyond 5 years ago for construction contractors will not be given consideration unless the key personnel proposed for this project played a significant role in the earlier project and the project can be shown to be similar to this project. An offeror must make clear the extent of involvement in those projects by current key personnel and clearly describe how the older project is similar to this project, considering

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changes in technology, materials, equipment, codes, etc. Experience beyond 5 years ago for design firms will not be given consideration.

List no more than 10 projects total. The list of projects shall include the following information:

- a. Project name and location
- b. Type of facility
- c. Nature of firm's responsibility (design, construction or both)
- d. Identify type of contract (design, design/build, or construction)
- e. Project owner's name and address and project manager's (point of contact) name, telephone number, fax number, and email address (if known)
- f. If a government contract, include the contracting agency and contracting officer's name, telephone number, fax number, and email address (if known)
- g. Date started
- h. Original scheduled completion date
- i. Actual completion date
- j. Overall size of facility (in square feet or square meters)
- k. Construction cost (excluding design costs)
- l. Duration of construction (excluding design time)
- m. Problems encountered and corrective actions taken
- n. Identify which proposed team members and/or firms were involved in the project; their specific roles and responsibilities on the project; and the extent of time they were involved with the project
- o. Relevance of experience to the solicitation project

2. Joint Ventures: If offeror represents the combining of two or more companies for the purpose of this RFP, the proposal shall indicate whether the firms have experience working together in design/build ventures and for how long and how many projects. In addition, each company of this joint venture shall list their Government contract experiences.

C. Past Performance:

1. Non-Corps References

For each non-Corps project listed under "Phase I: Experience" factor, offerors should send Client Authorization Letters and Contractor Performance Report (See Section 00500) to each reference listed in the proposal to assist in the timely processing of the past performance evaluation. Provide a copy of issued letters with the offeror's proposal. Copies of aforementioned letters will not count towards the page limitation stated in Paragraph 1.5.3.1 of this Section.

2. Offerors are encouraged to submit awards, letters, evaluations, or other forms of recognition that demonstrate their performance capabilities and customer satisfaction. If provided, this additional past performance information shall be relegated to an appendix and will not count towards the aforementioned page limitation.

3. New Companies

For new companies entering the marketplace (without relevant company experience) it will be the quality of the past performance of their key management personnel, major subcontractor and consultants that will indicate the risk of good performance and become the basis of the past performance evaluation. Identifying how long key personnel stayed on the contract and how well they managed their portion of the contract will be of great importance in the evaluation process.

D. Financial Capacity:

Submit a letter of current bonding capacity from a Bonding Company. This letter will not count towards the aforementioned page limitation.

1.9.2 Phase II – Design and Cost/Price Proposal Preparation

VOLUME I – PRELIMINARY DESIGN PROPOSAL

The purpose of the Preliminary Design Proposal is:

To provide sufficient design information for the Government to determine the acceptability of the proposed design in meeting the functional requirements set forth herein for operational use and economical maintenance during the anticipated life of the facility.

To provide data for a determination of the engineering sufficiency and soundness of the basic approach to the design for each technical discipline. Also, it will serve as a documentary check that the designer has been provided or has developed the essential engineering criteria necessary for all facets of final computations and detailed development of a thoroughly engineered, coordinated, economical, and functional design.

- Design Proposal

1. The design proposal shall include, as a minimum, the following descriptive narratives, manufacturer's catalog data and graphic information:

a. Narratives

(1) General Description

(a) Provide brief description of the facility addressing the overall design, materials components, and engineering. **DO NOT INCLUDE DESIGN CALCULATIONS.** Include the following:

- (i) Basic site layout and the rationale behind the site design. Address existing site features, site demolition requirements, helipad, new utilities, site improvements, **AM #10 force protection requirements**, camera (CCTV) layouts, landscaping, and irrigation.
- (ii) Building addition's architectural configuration and the rationale behind the design. Address relationship of the site and site activities to the building. Address exterior and interior building materials.
- (iii) Building's interior configuration, to include general discussion on interior finishes in the Command Section, general administrative areas, common areas (copy rooms, break/vending areas, conference rooms, restrooms). Discuss use of common areas within the facility. **DO NOT PROVIDE COLOR BOARDS.**
- (iv) Configuration and utilization of above ceiling space to maximize the ceiling height within the building.
- (v) Structural system for building addition (front entry) and any modifications to existing structure. Include structural considerations for column removal in the Command Conference Room; floor reinforcement in areas with concentrated loading, i.e., document storage/file rooms; shear wall penetrations, if required, for proposed HVAC system.
- (vi) Heating, Ventilation and Air Conditioning system and rationale behind the selection of the proposed system.
- (vii) Fire protection system and the rationale behind the selection of the proposed system.
- (viii) Exterior power distribution systems (upgrade to existing system) and the rationale behind the selection of the proposed system. Discuss service to the building and location. Identify type of wire. Identify whether aerial or underground.

- (ix) Interior power distribution systems and the rationale behind the selection of the proposed system. Identify electrical characteristics of power supply (phase, voltage, KVA). Provide description of panels, protection devices and typical loading of circuits. Identify type of wire.
 - (x) Exterior lighting system and the rationale behind the proposed system. Address exterior lighting locations, illumination levels for each area, and lighting controls.
 - (xi) Interior lighting system and the rationale behind the selection of the proposed system. Address illumination levels for each area, emergency lighting, and lighting controls.
 - (xii) Interior communications systems (telephone, data, cable TV, sound transmission (**AM #10**) SIPRNET in accordance with (IAW) Ch D71, A2.b.12) and the rationale behind the selection of each system.
 - (xiii) Abatement of hazardous and/or regulated materials, such as lead, asbestos, mold. Address worker protection, methods of removal, material handling, containment, and disposal.
 - (xiv) **AM #10 Anti-terrorism/force protection features of the facility, to include:**
 - **Hardening and reinforcing of exterior brick veneer in accordance with (IAW) Chapter 111 A.3. For purposes of the technical proposal, use the following scaled pressures and impulses to determine building hardening requirements. Copies of the Progressive Collapse Analysis and Blast Analysis reports will be provided to the successful offeror after award.**
 - side-on peak overpressure = 9.935 psi
 - side-on impulse in blast wave = 0.047 psi-sec
 - reflected overpressure = 19.145 psi
 - reflected impulse = 0.127 psi-sec
 - **Laminating glazing IAW Chapter (Ch.) B, C (Health and Safety).2.**
 - **HVAC modifications IAW Ch. D3, C (Health and Safety).**
 - **Utility distributions**
 - **Bracing of overhead features and equipment IAW Ch D5, C (Health and Safety), and Ch D6, C (Health and Safety).**
- (b) Describe the energy-efficient and/or energy-saving features proposed for this project.
- (c) **If the design proposal includes any deviations from the RFP requirements, including functional or adjacency requirements, identify the deviation, provide justification for the deviation, and describe the benefit/improvement that the deviation provides to the facility.** (See Section 00150, paragraph "DESIGN FREEDOM".)
- (d) **Identify all proposed betterments.** (See Section 00800, clauses entitled "DESIGN-BUILD CONTRACT ORDER OF PRECEDENCE" AND "PROPOSED BETTERMENTS".)

b. Manufacturer Catalog Data

Manufacturer catalog data shall include industry standard quality indicators for the specific material or equipment and will be used to establish the proposed construction quality during proposal evaluation. Data may be in the form of CSI standard product information formats Manu-Spec and Spec-Data, and manufacturer's specifications and details. Furnish data, arranged by CSI Divisions, on:

- (1) Glazing: new windows; replacement glazing for (**AM #10**) **entire building IAW Ch. B C (Health and Safety).2.**
- (2) Doors
- (3) Interior finishes, to include floors, base, walls, ceilings, toilet partitions, lavatory tops
- (4) Exterior finishes for building addition, to include walls, roof, and soffits
- (5) Interior and exterior light fixtures, including identification of where each proposed fixture type will be used
- (6) Any other catalog data deemed pertinent

c. Graphic Information

Furnish preliminary drawings and schematics to illustrate the proposal. If a plan does not fit on one standard size drawing sheet at the scale specified, provide an overall plan to fit on one standard size drawing sheet plus individual sheets at the scale specified.

- (1) Site Layout Plan, minimum scale 1" = 40', showing:
 - (a) Building location
 - (b) Service drives and parking
 - (c) Location of site features (i.e. landscaping, sidewalks, lighting, mechanical and electrical equipment, dumpsters, cannon, flagpole, helipad)
 - (d) Set-backs
- (2) Architectural Floor Plans, minimum scale 1/8" = 1', with all areas identified, showing:
 - (a) Gross area of building; exterior and interior dimensions; size of areas; critical and basic dimensions.
 - (b) Area calculations
 - (c) Preliminary finish schedule
 - (d) Plumbing fixture locations, including drinking fountains
 - (e) Furniture layout
- (3) Interior Sections/Elevations, minimum scale 1/4" = 1', showing:
 - (a) Front entrance building addition
 - (b) Command suite, to include the pre-assembly area and conference room
 - (c) Common areas (break/vending areas, copy areas)
 - (d) Conference room (typical)
 - (e) Restrooms
 - (f) Field officer of the day (FOD) area
- (4) Exterior Elevations of building additions and/or modifications, minimum scale 1/8" = 1', showing:
 - (a) Fenestrations and material indications.
 - (b) Critical and basic dimensions.
 - (c) Exterior finish materials.

(5) Building Cross-Sections

Provide one cross-section through each wing of the building and one longitudinal cross-section through the building indicating floor and ceiling heights.

d. Sustainable Design. Using the Sustainable Project Rating Tool (SPiRiT), provide a self-assessment of the sustainability features of the facility (see Section 00500 for the Sustainable Project Rating Tool manual and rating sheets). For each required element and for each point-scored element where you have met (or exceeded) the requirement, provide justification of how you have met the stated requirement. Goal is minimum Bronze level certification. If Bronze level certification cannot be attained, discuss the factors that prevent achieving this goal.

- Preliminary Project Schedule.

A time-scaled logic diagram shall be submitted with the Preliminary Design proposal reflecting the detailed design phase activities and summary level construction activities from Notice to Proceed through final completion, including all option work. Project Schedule shall conform to Section 01320 PROJECT SCHEDULE and may be used for preparation of the Preliminary Schedule required in Section 01320 after award. The following information shall be included as a minimum:

1. Detailed design activities
2. Summary level construction activities
3. Phasing requirements
4. Critical Path
5. Milestones and Constraints
6. Overall Design Duration, in calendar days
7. Overall Construction Duration, in calendar days
8. Overall Proposed Duration, in calendar days

The contractor shall propose the contract durations for Work Item #1, Design and Construction of the new facility. The proposed duration shall not exceed the duration specified in Section 01000, Design and Construction Schedule. The proposed schedule shall support the proposed duration. Upon contract award, the successful offeror's proposed duration shall become the contract duration for Work Item #1. It should be noted that the Government will include provisions in the contract for liquidated damages for each calendar day the Contractor exceeds the contract schedule.

VOLUME II COST/PRICE PROPOSAL

C. Cost/Price Proposal Preparation

Prices shall be firm. The offeror's price, to be considered in the competitive negotiation evaluation, shall be the offeror's Total Base Bid, plus all options, as shown on the price proposal schedule. The cost/price proposal will be evaluated separately, after evaluation of design proposal. The cost/price proposal shall consist of the following:

1. Solicitation, Offer and Award. The Standard Form 1442 shall be completely filled out and signed by a principal of the firm authorized to bind the design-build team. Signature(s) must be in longhand,
2. Price Proposal Schedule
 - a. Offerors shall complete the Price Proposal Schedule by filling out the pricing data blanks.
 - b. Overhead and profit shall be applied proportionally to each category and will not be required to be shown separately.
 - c. Offerors shall include allowance for weather days in the Cost/Price Proposal and shall schedule any contingency for severe weather in accordance with weather requirements included in Section 01000, CONSTRUCTION SCHEDULE.
3. Bid Guarantee. The bid guarantee shall be submitted in accordance with Section 00700, Contract Clauses.
4. Representations and Certifications. Representations are local, state, and federal representative statements and certifications made by the Offeror concerning a variety of issues. Complete each item in Section 00600, REPRESENTATIONS AND CERTIFICATIONS and submit one original with the Phase II proposal.
5. Subcontracting Plan. (Applies to Large Businesses only.) All large businesses shall submit a subcontracting plan with their technical and price/cost proposals. The plan should be prepared in accordance with FAR 52.219-9. Failure to submit an acceptable subcontracting plan may make the offeror ineligible for award of the contract. The submission of the subcontracting plan is in no way advantageous to large businesses over any small business in the evaluation process. A sample subcontracting plan and scoring checklist are included on the solicitation CD-ROM disk. See Section 00100, paragraph SMALL BUSINESS SUBCONTRACTING PLAN for additional information and Fort Worth District subcontracting floors.

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6. Small Disadvantaged Business (SDB) Utilization Plan. (Applies to all Offerors.) Offerors shall submit a SDB Utilization Plan, to include the following information:

- a. Identification of each SDB concern proposed and the work each is to perform.
- b. Targets expressed in dollars and percentages representing each SDB concern's participation of the total contract value.
- c. Total target value of all SDB participation, expressed in dollars and percentages, of the total contract value.

The offeror is put on notice that any targets represented in submitted proposal will be incorporated into and become part of any resulting contract. All proposed SDB concerns must be certified by the Small Business Administration and listed in the online database PRO-Net. SDB concerns may register in PRO-Net at <http://pronet.sba.gov>.

1.10 CLARIFICATIONS AND FINAL PROPOSAL REVISION

1.10.1 General

Any conflicting criteria which cannot be resolved by the Order of Precedence specified in Section 00800 SPECIAL CONTRACT REQUIREMENTS shall be brought to the attention of the Government by the Offeror as part of the written clarification requirement of the proposal. In the absence of such request for clarification, the Offeror shall perform to the most beneficial criteria as determined by the Government.

1.10.2 Clarifications Prior to Proposal Due Date

In the event that clarifications are required prior to submitting either the Phase I or II proposal, contact the individuals listed in Section 00100, INSTRUCTIONS TO OFFERORS. All RFP holders will be advised of significant clarifications affecting the scope of the project.

1.10.3 Clarifications Submitted with Proposals

For clarifications remaining at the time and date that proposals are due, written clarifications may be included in the proposal for consideration by the Government. Clarifications submitted with proposals shall clearly identify the understanding of the RFP documents and how this understanding is reflected in the cost proposal. Extensive qualifications, exclusions and exceptions in the form of clarifications may be considered by the Government to be non-responsive and may be grounds for rejection of the proposal.

1.10.4 Final Proposal Revision

If the Contracting Officer determines that discussions are necessary, all offerors in the competitive range will be given an opportunity to submit a final proposal revision. All proposal revisions must be submitted as required in paragraphs 1.5.3.1 and 1.5.3.2.

1.11 PAYMENT FOR PROPOSALS

Offerors will not be reimbursed for the cost of preparing their proposals.

1.12 NOTICE

Failure to submit all the data indicated in this section may be cause for determining a proposal non-responsive and, therefore, not considered for award.

2 PRODUCTS (NOT USED)

3 EXECUTION (NOT USED)

APPLICATION OF WAGE DECISIONS

Solicitation No.: DACA63-02-R-0001

Project: Design/Build Building 350 Conversion, JRTC and Fort Polk Headquarters

Location: Fort Polk, Vernon Parish, Louisiana

1. Service Contract Act (SCA) Wage Determination Number 1994-2229, Revision Number 16, will be applicable to those activities performed with regard to contract installation support requirements for **certain** minor maintenance repairs, clerical support services, custodial services, grounds maintenance, and landscaping. This wage determination will also be used for demolition activities where construction will be performed at the site of the demolition.

NOTE: Payroll records are not required to be submitted to the U.S. Army Corps of Engineers for work performed under the Service Contract Act (SCA). SCA payroll records are required to be kept by the Prime Contractor, and available for review if requested, for a minimum of three years from the date of contract completion. Labor compliance will be monitored by the U.S. Department of Labor for SCA labor records.

2. Davis-Bacon Act Wage Decision LA010005, Building Construction Projects, will be applicable to the construction, alteration, painting or repair of buildings, installations within buildings, appurtenances to buildings, foundations for buildings, excavation and fill for buildings, and utilities within five feet of buildings for those construction activities performed in Vernon Parish Louisiana.

3. Davis-Bacon Act Wage Decision LA010039, Highway Construction Projects, is applicable to highway construction activities (paving and utilities incidental to building construction) performed in Vernon Parish Louisiana which are not incidental to heavy construction activities in Vernon Parish Louisiana.

4. Davis-Bacon Act Wage Decision LA010009, Heavy Construction Projects, is applicable to heavy construction activities which are not incidental to building/residential construction, and all construction requirements not shown in the paragraphs above, for those activities performed in Vernon Parish Louisiana.

NOTE:

- (1) PAYROLL RECORDS ARE REQUIRED, UNDER THE DAVIS-BACON ACT, TO BE SUBMITTED TO THE U.S. ARMY CORPS OF ENGINEERS FOR ALL CONSTRUCTION WORK PERFORMED.**
- (2) THE WAGE DECISION/TASK ORDER NUMBER APPLICABLE TO THE WORK PERFORMED IS TO BE SHOWN ON ALL THE CERTIFIED PAYROLL RECORDS SUBMITTED.**

Applicability of Service Contract Act (SCA) VS Davis-Bacon Act (DBA) Wage Determinations:

Some contract work may be characterized as either DBA painting/repairs or SCA maintenance. For example, either the DBA or the SCA could cover replacing broken windows, spot painting, or minor patching of a wall. In those instances where a contract service call or order requires construction trade skills (i.e., Carpenter, Plumber, Painter, etc.) but it is unclear whether the work required is SCA maintenance or DBA painting/repairs, apply the following rules---

- (1) Individual service calls or orders which will require a total of 32 hours or more work hours to perform shall be considered to be repair work subject to the DBA.**
- (2) Individual service calls or orders which will require less than 32 work hours to perform shall be considered to be maintenance subject to SCA.**
- (3) Painting work of 200 square feet or more to be performed under an individual service call or order shall be considered to be subject to the DBA regardless of the total work hours required.**
- (4) Any questions the Prime Contractor may have regarding SCA vs. DBA applicability to the payroll records must be addressed to the U.S. Army Corps of Engineers District Labor Advisor.**

WAGE DETERMINATION NO: 94-2229 REV (17) AREA: LA, ALEXANDRIA

WAGE DETERMINATION NO: 94-2229 REV (17) AREA: LA,ALEXANDRIA
REGISTER OF WAGE DETERMINATIONS UNDER | U.S. DEPARTMENT OF LABOR
FOR OFFICIAL USE ONLY BY FEDERAL AGENCIES PARTICIPATING IN MOU WITH DOL
WASHINGTON D.C. 20210

William W.Gross	Division of	Wage Determination No.: 1994-2229
Director	Wage Determinations	Revision No.: 17
		Date Of Last Revision: 04/15/2002

State: Louisiana
Area: Louisiana Parishes of Acadia, Allen, Avoyelles, Beauregard, Caldwell, Catahoula, Concordia, Evangeline, Franklin, Grant, La Salle, Natchitoches, Rapides, Sabine, Tensas, Vernon, Winn

Fringe Benefits Required Follow the Occupational Listing	
OCCUPATION TITLE	MINIMUM WAGE RATE
Administrative Support and Clerical Occupations	
Accounting Clerk I	9.27
Accounting Clerk II	10.44
Accounting Clerk III	13.67
Accounting Clerk IV	14.88
Court Reporter	12.66
Dispatcher, Motor Vehicle	8.78
Document Preparation Clerk	9.17
Duplicating Machine Operator	9.21
Film/Tape Librarian	12.02
General Clerk I	8.13
General Clerk II	9.00
General Clerk III	9.30
General Clerk IV	11.75
Housing Referral Assistant	14.05
Key Entry Operator I	8.23
Key Entry Operator II	10.44
Messenger (Courier)	7.31
Order Clerk I	10.11
Order Clerk II	11.95
Personnel Assistant (Employment) I	8.62
Personnel Assistant (Employment) II	10.25
Personnel Assistant (Employment) III	11.48
Personnel Assistant (Employment) IV	14.21
Production Control Clerk	13.03
Rental Clerk	10.95
Scheduler, Maintenance	10.33
Secretary I	11.30
Secretary II	12.55
Secretary III	14.59
Secretary IV	16.21
Secretary V	17.65
Service Order Dispatcher	13.82
Stenographer I	9.47
Stenographer II	10.12
Supply Technician	13.81
Survey Worker (Interviewer)	12.21
Switchboard Operator-Receptionist	8.28
Test Examiner	12.21
Test Proctor	12.21
Travel Clerk I	8.55
Travel Clerk II	9.25
Travel Clerk III	9.70

ACCOMPANYING AMENDMENT NO. 0010 TO SOLICITATION NO. DACA63-02-R-0001

Word Processor I	8.79
Word Processor II	9.91
Word Processor III	10.99
Automatic Data Processing Occupations	
Computer Data Librarian	8.17
Computer Operator I	9.44
Computer Operator II	11.36
Computer Operator III	13.64
Computer Operator IV	15.14
Computer Operator V	16.81
Computer Programmer I (1)	13.99
Computer Programmer II (1)	17.34
Computer Programmer III (1)	20.87
Computer Programmer IV (1)	21.91
Computer Systems Analyst I (1)	15.96
Computer Systems Analyst II (1)	18.92
Computer Systems Analyst III (1)	21.75
Peripheral Equipment Operator	10.03
Automotive Service Occupations	
Automotive Body Repairer, Fiberglass	14.50
Automotive Glass Installer	12.76
Automotive Worker	12.76
Electrician, Automotive	13.63
Mobile Equipment Servicer	11.17
Motor Equipment Metal Mechanic	14.50
Motor Equipment Metal Worker	13.15
Motor Vehicle Mechanic	14.50
Motor Vehicle Mechanic Helper	10.15
Motor Vehicle Upholstery Worker	12.04
Motor Vehicle Wrecker	12.76
Painter, Automotive	13.63
Radiator Repair Specialist	12.76
Tire Repairer	10.79
Transmission Repair Specialist	14.50
Food Preparation and Service Occupations	
Baker	11.30
Cook I	8.41
Cook II	10.23
Dishwasher	6.63
Food Service Worker	6.42
Meat Cutter	10.23
Waiter/Waitress	7.04
Furniture Maintenance and Repair Occupations	
Electrostatic Spray Painter	13.63
Furniture Handler	9.68
Furniture Refinisher	13.63
Furniture Refinisher Helper	10.15
Furniture Repairer, Minor	12.04
Upholsterer	13.63
General Services and Support Occupations	
Cleaner, Vehicles	7.15
Elevator Operator	7.95
Gardener	8.42
House Keeping Aid I	6.49
House Keeping Aid II	7.14
Janitor	7.32
Laborer, Grounds Maintenance	7.54
Maid or Houseman	6.17
Pest Controller	10.65
Refuse Collector	8.31
Tractor Operator	6.74
Window Cleaner	8.14
Health Occupations	
Dental Assistant	10.93
Emergency Medical Technician (EMT)/Paramedic/Ambulance Driver	11.94
Licensed Practical Nurse I	10.51
Licensed Practical Nurse II	11.80

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Licensed Practical Nurse III	13.19
Medical Assistant	10.75
Medical Laboratory Technician	11.84
Medical Record Clerk	9.77
Medical Record Technician	13.54
Nursing Assistant I	7.10
Nursing Assistant II	7.98
Nursing Assistant III	8.71
Nursing Assistant IV	9.77
Pharmacy Technician	12.19
Phlebotomist	11.86
Registered Nurse I	16.37
Registered Nurse II	20.02
Registered Nurse II, Specialist	20.02
Registered Nurse III	24.24
Registered Nurse III, Anesthetist	24.24
Registered Nurse IV	29.05
Information and Arts Occupations	
Audiovisual Librarian	16.59
Exhibits Specialist I	11.61
Exhibits Specialist II	13.85
Exhibits Specialist III	17.78
Illustrator I	11.61
Illustrator II	13.85
Illustrator III	17.78
Librarian	17.82
Library Technician	11.35
Photographer I	10.20
Photographer II	12.18
Photographer III	15.62
Photographer IV	17.35
Photographer V	19.26
Laundry, Dry Cleaning, Pressing and Related Occupations	
Assembler	6.20
Counter Attendant	6.20
Dry Cleaner	7.37
Finisher, Flatwork, Machine	6.20
Presser, Hand	6.20
Presser, Machine, Drycleaning	6.20
Presser, Machine, Shirts	6.20
Presser, Machine, Wearing Apparel, Laundry	6.20
Sewing Machine Operator	7.75
Tailor	8.56
Washer, Machine	6.96
Machine Tool Operation and Repair Occupations	
Machine-Tool Operator (Toolroom)	13.63
Tool and Die Maker	16.99
Material Handling and Packing Occupations	
Forklift Operator	10.97
Fuel Distribution System Operator	13.52
Material Coordinator	9.30
Material Expediter	9.30
Material Handling Laborer	9.84
Order Filler	9.02
Production Line Worker (Food Processing)	9.30
Shipping Packer	9.42
Shipping/Receiving Clerk	10.21
Stock Clerk (Shelf Stocker; Store Worker II)	10.40
Store Worker I	8.41
Tools and Parts Attendant	10.12
Warehouse Specialist	8.95
Mechanics and Maintenance and Repair Occupations	
Aircraft Mechanic	18.34
Aircraft Mechanic Helper	11.67
Aircraft Quality Control Inspector	17.64
Aircraft Servicer	13.84
Aircraft Worker	14.68

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Appliance Mechanic	13.63
Bicycle Repairer	10.79
Cable Splicer	15.95
Carpenter, Maintenance	13.63
Carpet Layer	12.76
Electrician, Maintenance	16.55
Electronics Technician, Maintenance I	14.68
Electronics Technician, Maintenance II	15.94
Electronics Technician, Maintenance III	17.37
Fabric Worker	11.37
Fire Alarm System Mechanic	14.50
Fire Extinguisher Repairer	11.17
Fuel Distribution System Mechanic	14.50
General Maintenance Worker	13.19
Heating, Refrigeration and Air Conditioning Mechanic	14.50
Heavy Equipment Mechanic	16.93
Heavy Equipment Operator	14.50
Instrument Mechanic	16.67
Laborer	9.67
Locksmith	13.63
Machinery Maintenance Mechanic	14.50
Machinist, Maintenance	14.50
Maintenance Trades Helper	11.17
Millwright	14.50
Office Appliance Repairer	13.63
Painter, Aircraft	13.63
Painter, Maintenance	13.63
Pipefitter, Maintenance	15.84
Plumber, Maintenance	14.99
Pneudraulic Systems Mechanic	14.50
Rigger	14.50
Scale Mechanic	13.15
Sheet-Metal Worker, Maintenance	14.50
Small Engine Mechanic	12.70
Telecommunication Mechanic I	14.79
Telecommunication Mechanic II	17.64
Telephone Lineman	16.68
Welder, Combination, Maintenance	14.50
Well Driller	14.50
Woodcraft Worker	14.50
Woodworker	11.17
Miscellaneous Occupations	
Animal Caretaker	7.62
Carnival Equipment Operator	10.29
Carnival Equipment Repairer	11.33
Carnival Worker	7.27
Cashier	7.05
Desk Clerk	8.63
Embalmer	17.93
Lifeguard	9.42
Mortician	17.74
Park Attendant (Aide)	11.84
Photofinishing Worker (Photo Lab Tech., Darkroom Tech)	9.42
Recreation Specialist	11.97
Recycling Worker	7.92
Sales Clerk	8.50
School Crossing Guard (Crosswalk Attendant)	6.52
Sport Official	9.42
Survey Party Chief (Chief of Party)	12.87
Surveying Aide	7.93
Surveying Technician (Instr. Person/Surveyor Asst./Instr.)	11.70
Swimming Pool Operator	7.35
Vending Machine Attendant	7.13
Vending Machine Repairer	8.45
Vending Machine Repairer Helper	7.13
Personal Needs Occupations	
Child Care Attendant	9.49

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Child Care Center Clerk	11.84
Chore Aid	6.88
Homemaker	11.98
Plant and System Operation Occupations	
Boiler Tender	15.68
Sewage Plant Operator	15.68
Stationary Engineer	14.50
Ventilation Equipment Tender	11.19
Water Treatment Plant Operator	15.68
Protective Service Occupations	
Alarm Monitor	9.57
Corrections Officer	12.33
Court Security Officer	12.62
Detention Officer	12.62
Firefighter	12.62
Guard I	7.06
Guard II	12.48
Police Officer	14.75
Stevedoring/Longshoremen Occupations	
Blocker and Bracer	12.14
Hatch Tender	12.14
Line Handler	12.14
Stevedore I	10.31
Stevedore II	11.71
Technical Occupations	
Air Traffic Control Specialist, Center (2)	28.21
Air Traffic Control Specialist, Station (2)	19.46
Air Traffic Control Specialist, Terminal (2)	21.43
Archeological Technician I	12.79
Archeological Technician II	14.39
Archeological Technician III	17.78
Cartographic Technician	17.45
Civil Engineering Technician	16.16
Computer Based Training (CBT) Specialist/ Instructor	15.64
Drafter I	9.69
Drafter II	11.61
Drafter III	13.85
Drafter IV	17.78
Engineering Technician I	10.13
Engineering Technician II	12.13
Engineering Technician III	14.48
Engineering Technician IV	18.58
Engineering Technician V	22.84
Engineering Technician VI	28.11
Environmental Technician	17.78
Flight Simulator/Instructor (Pilot)	18.92
Graphic Artist	14.49
Instructor	13.81
Laboratory Technician	11.84
Mathematical Technician	16.78
Paralegal/Legal Assistant I	13.43
Paralegal/Legal Assistant II	17.25
Paralegal/Legal Assistant III	19.68
Paralegal/Legal Assistant IV	23.81
Photooptics Technician	16.29
Technical Writer	18.30
Unexploded (UXO) Safety Escort	17.93
Unexploded (UXO) Sweep Personnel	17.93
Unexploded Ordnance (UXO) Technician I	17.93
Unexploded Ordnance (UXO) Technician II	21.70
Unexploded Ordnance (UXO) Technician III	26.01
Weather Observer, Combined Upper Air and Surface Programs (3)	13.06
Weather Observer, Senior (3)	17.51
Weather Observer, Upper Air (3)	13.06
Transportation/ Mobile Equipment Operation Occupations	
Bus Driver	9.68
Parking and Lot Attendant	6.16

ACCOMPANYING AMENDMENT NO. 0010 TO SOLICITATION NO. DACA63-02-R-0001

Shuttle Bus Driver	10.21
Taxi Driver	8.41
Truckdriver, Heavy Truck	13.97
Truckdriver, Light Truck	10.21
Truckdriver, Medium Truck	11.09
Truckdriver, Tractor-Trailer	13.97

ALL OCCUPATIONS LISTED ABOVE RECEIVE THE FOLLOWING BENEFITS:

HEALTH & WELFARE: \$2.02 an hour or \$80.80 a week or \$350.13 a month

VACATION: 2 weeks paid vacation after 1 year of service with a contractor or successor; 3 weeks after 10 years, and 4 after 20 years. Length of service includes the whole span of continuous service with the present contractor or successor, wherever employed, and with the predecessor contractors in the performance of similar work at the same Federal facility. (Reg. 29 CFR 4.173)

HOLIDAYS: A minimum of ten paid holidays per year: New Year's Day, Martin Luther King Jr.'s Birthday, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day, and Christmas Day. (A contractor may substitute for any of the named holidays another day off with pay in accordance with a plan communicated to the employees involved.) (See 29 CFR 4.174)

THE OCCUPATIONS WHICH HAVE PARENTHESES AFTER THEM RECEIVE THE FOLLOWING BENEFITS (as numbered):

1) Does not apply to employees employed in a bona fide executive, administrative, or professional capacity as defined and delineated in 29 CFR 541. (See CFR 4.156)
 2) APPLICABLE TO AIR TRAFFIC CONTROLLERS ONLY - NIGHT DIFFERENTIAL: An employee is entitled to pay for all work performed between the hours of 6:00 P.M. and 6:00 A.M. at the rate of basic pay plus a night pay differential amounting to 10 percent of the rate of basic pay.

3) WEATHER OBSERVERS - NIGHT PAY & SUNDAY PAY: If you work at night as part of a regular tour of duty, you will earn a night differential and receive an additional 10% of basic pay for any hours worked between 6pm and 6am. If you are a full-time employed (40 hours a week) and Sunday is part of your regularly scheduled workweek, you are paid at your rate of basic pay plus a Sunday premium of 25% of your basic rate for each hour of Sunday work which is not overtime (i.e. occasional work on Sunday outside the normal tour of duty is considered overtime work).

HAZARDOUS PAY DIFFERENTIAL: An 8 percent differential is applicable to employees employed in a position that represents a high degree of hazard when working with or in close proximity to ordnance, explosives, and incendiary materials. This includes work such as screening, blending, dying, mixing, and pressing of sensitive ordnance, explosives, and pyrotechnic compositions such as lead azide, black powder and photoflash powder. All dry-house activities involving propellants or explosives. Demilitarization, modification, renovation, demolition, and maintenance operations on sensitive ordnance, explosives and incendiary materials. All operations involving regading and cleaning of artillery ranges. A 4 percent differential is applicable to employees employed in a position that represents a low degree of hazard when working with, or in close proximity to ordnance, (or employees possibly adjacent to) explosives and incendiary materials which involves potential injury such as laceration of hands, face, or arms of the employee engaged in the operation, irritation of the skin, minor burns and the like; minimal damage to immediate or adjacent work area or equipment being used. All operations involving, unloading, storage, and hauling of ordnance, explosive, and incendiary ordnance material other than small arms ammunition. These differentials are only applicable to work that has been specifically designated by the agency for ordnance, explosives, and incendiary material differential pay.

**** UNIFORM ALLOWANCE ****

If employees are required to wear uniforms in the performance of this contract (either by the terms of the Government contract, by the employer, by the state or local law, etc.), the cost of furnishing such uniforms and maintaining (by laundering or dry cleaning) such uniforms is an expense that may not be borne by an employee where such cost reduces the hourly rate below that required by the wage determination. The Department of Labor will accept payment in accordance with the following standards as compliance: The contractor or subcontractor is required to furnish all employees with an adequate number of uniforms without cost or to reimburse employees for the actual cost of the uniforms. In addition, where uniform cleaning and maintenance is made the responsibility of the employee, all contractors and subcontractors subject to this wage determination shall (in the absence of a bona fide collective bargaining agreement providing for a different amount, or the furnishing of contrary affirmative proof as to the actual cost), reimburse all employees for such cleaning and

ACCOMPANYING AMENDMENT NO. 0010 TO SOLICITATION NO. DACA63-02-R-0001 maintenance at a rate of \$3.35 per week (or \$.67 cents per day). However, in those instances where the uniforms furnished are made of "wash and wear" materials, may be routinely washed and dried with other personal garments, and do not require any special treatment such as dry cleaning, daily washing, or commercial laundering in order to meet the cleanliness or appearance standards set by the terms of the Government contract, by the contractor, by law, or by the nature of the work, there is no requirement that employees be reimbursed for uniform maintenance costs.

**** NOTES APPLYING TO THIS WAGE DETERMINATION ****

Source of Occupational Title and Descriptions:

The duties of employees under job titles listed are those described in the "Service Contract Act Directory of Occupations," Fourth Edition, January 1993, as amended by the Third Supplement, dated March 1997, unless otherwise indicated. This publication may be obtained from the Superintendent of Documents, at 202-783-3238, or by writing to the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Copies of specific job descriptions may also be obtained from the appropriate contracting officer.

REQUEST FOR AUTHORIZATION OF ADDITIONAL CLASSIFICATION AND WAGE RATE {Standard Form 1444 (SF 1444)} Conformance Process:

The contracting officer shall require that any class of service employee which is not listed herein and which is to be employed under the contract (i.e., the work to be performed is not performed by any classification listed in the wage determination), be classified by the contractor so as to provide a reasonable relationship (i.e., appropriate level of skill comparison) between such unlisted classifications and the classifications listed in the wage determination. Such conformed classes of employees shall be paid the monetary wages and furnished the fringe benefits as are determined.

Such conforming process shall be initiated by the contractor prior to the performance of contract work by such unlisted class(es) of employees. The conformed classification, wage rate, and/or fringe benefits shall be retroactive to the commencement date of the contract. {See Section 4.6 (C)(vi)} When multiple wage determinations are included in a contract, a separate SF 1444 should be prepared for each wage determination to which a class(es) is to be conformed. The process for preparing a conformance request is as follows:

- 1) When preparing the bid, the contractor identifies the need for a conformed occupation) and computes a proposed rate).
- 2) After contract award, the contractor prepares a written report listing in order proposed classification title), a Federal grade equivalency (FGE) for each proposed classification), job description), and rationale for proposed wage rate), including information regarding the agreement or disagreement of the authorized representative of the employees involved, or where there is no authorized representative, the employees themselves. This report should be submitted to the contracting officer no later than 30 days after such unlisted class(es) of employees performs any contract work.
- 3) The contracting officer reviews the proposed action and promptly submits a report of the action, together with the agency's recommendations and pertinent information including the position of the contractor and the employees, to the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, for review. (See section 4.6(b)(2) of Regulations 29 CFR Part 4).
- 4) Within 30 days of receipt, the Wage and Hour Division approves, modifies, or disapproves the action via transmittal to the agency contracting officer, or notifies the contracting officer that additional time will be required to process the request.
- 5) The contracting officer transmits the Wage and Hour decision to the contractor.
- 6) The contractor informs the affected employees.

Information required by the Regulations must be submitted on SF 1444 or bond paper. When preparing a conformance request, the "Service Contract Act Directory of Occupations" (the Directory) should be used to compare job definitions to insure that duties requested are not performed by a classification already listed in the wage determination. Remember, it is not the job title, but the required tasks that determine whether a class is included in an established wage determination. Conformances may not be used to artificially split, combine, or subdivide classifications listed in the wage determination.

General Decision Number LA020005

Superseded General Decision No. LA010005

State: Louisiana

**Construction Type:
BUILDING**

County(ies):

ACADIA	GRANT	SABINE
ALLEN	IBERIA	ST HELENA
ASSUMPTION	IBERVILLE	ST JAMES
AVOYELLES	JACKSON	ST LANDRY
BEAUREGARD	JEFFERSON DAVIS	ST MARY
BIENVILLE	LA SALLE	TANGIPAHOA
CALDWELL	LAFOURCHE	TENSAS
CAMERON	LINCOLN	TERREBONNE
CATAHOULA	MADISON	UNION
CLAIBORNE	MOREHOUSE	VERMILION
CONCORDIA	NATCHITOCHE	VERNON
DE SOTO	OUACHITA	WASHINGTON
EAST CARROLL	PLAQUEMINES	WEBSTER
EAST FELICIANA	POINTE COUPEE	WEST CARROLL
EVANGELINE	RED RIVER	WEST FELICIANA
FRANKLIN	RICHLAND	WINN

BUILDING CONSTRUCTION PROJECTS (Does not include single family homes & apartments up to and including 4 stories)

Modification Number	Publication Date
0	03/01/2002

COUNTY(ies):

ACADIA	GRANT	SABINE
ALLEN	IBERIA	ST HELENA
ASSUMPTION	IBERVILLE	ST JAMES
AVOYELLES	JACKSON	ST LANDRY
BEAUREGARD	JEFFERSON DAVIS	ST MARY
BIENVILLE	LA SALLE	TANGIPAHOA
CALDWELL	LAFOURCHE	TENSAS
CAMERON	LINCOLN	TERREBONNE
CATAHOULA	MADISON	UNION
CLAIBORNE	MOREHOUSE	VERMILION
CONCORDIA	NATCHITOCHE	VERNON
DE SOTO	OUACHITA	WASHINGTON
EAST CARROLL	PLAQUEMINES	WEBSTER
EAST FELICIANA	POINTE COUPEE	WEST CARROLL
EVANGELINE	RED RIVER	WEST FELICIANA
FRANKLIN	RICHLAND	WINN

ASBE0021D 05/01/2001

Rates Fringes
BIENVILLE, CALDWELL, CLAIBORNE, DE SOTO, GRANT, JACKSON, LINCOLN,
NATCHITOCHE, OUACHITA, RED RIVER, SABINE, UNION, WEBSTER & WINN
PARISHES:

ASBESTOS WORKERS/INSULATORS (Includes application of all insulating materials, protective coverings,

ACCOMPANYING AMENDMENT NO. 0010 TO SOLICITATION NO. DACA63-02-R-0001

coatings & finishings to all types of mechanical systems)	16.77	4.68
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ASBE0053A 08/30/2001

	Rates	Fringes
ASSUMPTION, AVOYELLES, CATAHOULA, CONCORDIA, EAST FELICIANA, IBERIA, IBERVILLE, LAFOURCHE, LA SALLE, PLAQUEMINES, POINTE COUPEE, ST. HELENA, ST. JAMES, ST. LANDRY, ST. MARY, TANGIPAHOA, TERREBONNE, WASHINGTON & WEST FELICIANA PARISHES:		

ASBESTOS WORKERS/INSULATORS (Includes application of all insulating materials, protective coverings, coatings and finishings to all types of mechanical systems)	16.59	3.85
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ASBE0112A 05/01/1998

	Rates	Fringes
ACADIA, ALLEN, BEAUREGARD, CAMERON, EVANGELINE, JEFFERSON DAVIS, VERMILION & VERNON PARISHES		

ASBESTOS WORKERS/INSULATORS (Includes application of all insulating materials, protective coverings, coatings and finishings to all types of mechanical systems)	19.145	2.335
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ASBE0114A 07/01/2000

	Rates	Fringes
EAST CARROLL, FRANKLIN, MADISON, MOREHOUSE, RICHLAND, TENSAS & WEST CARROLL PARISHES:		

ASBESTOS WORKERS/INSULATORS (Includes application of all insulating materials, protective coverings, coatings and finishings to all types of mechanical systems)	17.70	4.72
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BOIL0037A 11/01/2001

	Rates	Fringes
ASSUMPTION, LAFOURCHE, PLAQUEMINES, ST. JAMES, TANGIPAHOA, TERREBONNE & WASHINGTON PARISHES:		

BOILERMAKERS	23.40	9.04
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BOIL0079A 11/01/1999

	Rates	Fringes
ACADIA, ALLEN, BEAUREGARD, BIENVILLE, CAMERON, CLAIBORNE, DE SOTO, EVANGELINE, GRANT, IBERIA, JACKSON, JEFFERSON DAVIS, LINCOLN, NATCHITOCES, RED RIVER, SABINE, ST. LANDRY, ST. MARY, UNION, VERMILION, VERNON, WEBSTER & WINN PARISHES:		

BOILERMAKERS	20.10	6.50
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BOIL0582A 11/01/2001

ACCOMPANYING AMENDMENT NO. 0010 TO SOLICITATION NO. DACA63-02-R-0001

Rates Fringes

AVOYELLES, CALDWELL, CATAHOULA, CONCORDIA, EAST CARROLL, EAST
 FELICIANA, FRANKLIN, IBERVILLE, LA SALLE, MADISON, MOREHOUSE,
 OUACHITA, POINTE COUPEE, RICHLAND, ST. HELENA, TENSAS, WEST
 CARROLL & WEST FELICIANA PARISHES:

BOILERMAKERS	23.40	9.50
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BRLA0001A 05/01/2001

	Rates	Fringes
BRICKLAYERS & STONEMASONS:		
AREA 1	17.40	3.80
AREA 2	15.86	2.85
AREA 3	14.75	1.95
AREA 4	16.05	3.05

BRICKLAYER & STONEMASON AREA DEFINITIONS

AREA 1 - Acadia, Allen, Beauregard, Cameron, Jefferson Davis
 & Vernon Parishes

AREA 2 - Assumption, East Feliciana, Iberia, Iberville,
 St. Helena, St. Mary, Tangipahoa, Vermilion, Washington &
 West Feliciana Parishes

AREA 3 - Bienville, Caldwell, Claiborne, De Soto, East Carroll,
 Franklin, Jackson, Lincoln, Madison, Morehouse, Ouachita,
 Red River, Richland, Tensas, Union, Webster & West Carroll
 Parishes

AREA 4 - Lafourche, Plaquemines, St. James & Terrebonne Parishes

BRLA0001E 11/01/1999

	Rates	Fringes
MARBLE SETTERS:		
AREA 1	17.27	3.20
AREA 2	16.14	2.85
AREA 3	14.75	1.95
AREA 4	16.45	3.05

TERRAZZO WORKERS & TILE SETTERS:

AREA 1	13.72	3.20
AREA 2	15.14	2.85
AREA 3	13.07	.95
AREA 4	15.45	3.05

AREA DEFINITIONS

AREA 1 - Acadia, Allen, Avoyelles, Beauregard, Cameron,
 Catahoula, Concordia, Evangeline, Grant, Jefferson Davis,
 La Salle, Natchitoches, Pointe Coupee, Sabine, St. Landry,
 Vernon & Winn Parishes

AREA 2 - Assumption, East Feliciana, Iberia, Iberville,
 St. Helena, St. Mary, Tangipahoa, Vermilion, Washington & West
 Feliciana Parishes

AREA 3 - Bienville, Caldwell, Claiborne, De Soto, East Carroll,
Franklin, Jackson, Lincoln, Madison, Morehouse, Ouachita,
Red River, Richland, Tensas, Union, Webster & West Carroll
Parishes

AREA 4 - Lafourche, Plaquemines, St. James & Terrebonne Parishes

BRLA0001H 11/01/1999

	Rates	Fringes
CAULKERS; CLEANERS; & POINTERS:		
AREA 1	17.27	3.20
AREA 2	16.14	2.85
AREA 3	14.75	1.95
AREA 4	16.45	3.05

MARBLE, TERRAZZO & TILE FINISHERS:

AREA 1	8.95	2.20
AREA 2	8.11	2.85
AREA 3	8.95	2.20
AREA 4	8.70	2.25

AREA DEFINITIONS

AREA 1 - Acadia, Allen, Avoyelles, Beauregard, Cameron,
Catahoula, Concordia, Evangeline, Grant, Jefferson Davis,
La Salle, Natchitoches, Pointe Coupee, Sabine, St. Landry,
Vernon & Winn Parishes

AREA 2 - Assumption, East Feliciana, Iberia, Iberville,
St. Helena, St. Mary, Tangipahoa, Vermilion, Washington & West
Feliciana Parishes

AREA 3 - Bienville, Caldwell, Claiborne, De Soto, East Carroll,
Franklin, Jackson, Lincoln, Madison, Morehouse, Ouachita,
Red River, Richland, Tensas, Union, Webster & West Carroll
Parishes

AREA 4 - Lafourche, Plaquemines, St. James & Terrebonne Parishes

CARP0062A 05/01/1998

	Rates	Fringes
ASSUMPTION, IBERIA (East of the Atchafalaya River), LAFOURCHE, PLAQUEMINES, ST. JAMES (South of the Mississippi River), ST. MARY (East of the Atchafalaya River), TANGIPAHOA, TERREBONNE & WASHINGTON PARISHES:		

LATHERS	14.78	2.30
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CARP0303B 01/01/2002

	Rates	Fringes
CATAHOULA, CONCORDIA & MADISON PARISHES:		
CARPENTERS	18.60	3.36
MILLWRIGHTS	19.60	3.36
PILEDRIVERMEN	19.60	3.36

CARP0403A 07/01/1998

	Rates	Fringes
AVOYELLES, GRANT, LA SALLE, NATCHITOCHEs & SABINE PARISHES:		
CARPENTERS	15.00	
MILLWRIGHTS	15.75	
PILEDRIVERMEN	15.50	

CARP0720A 06/01/1998

	Rates	Fringes
EAST FELICIANA, IBERVILLE (Excluding portion south of an East-West line from Darrow, Louisiana to the Atchafalaya River), POINTE COUPEE, ST. HELENA, ST. JAMES (North of the Mississippi River) & WEST FELICIANA PARISHES:		
MILLWRIGHTS	15.60	.16

CARP0764A 04/01/2001

	Rates	Fringes
BIENVILLE, CLAIBORNE, DE SOTO, RED RIVER & WEBSTER PARISHES:		
CARPENTERS	16.35	3.54
PILEDRIVERMEN	18.45	3.54
MILLWRIGHTS	18.95	3.54
LATHERS	18.70	3.54

CARP0953A 07/01/2001

	Rates	Fringes
ALLEN, BEAUREGARD, CAMERON (Excluding Strategic Petroleum Reserve), JEFFERSON DAVIS & VERNON (Excluding Fort Polk) PARISHES:		
CARPENTERS & PILEDRIVERMEN	15.28	2.63
CAMERON (Strategic Petroleum Reserve) & VERNON (Fort Polk) PARISHES:		
CARPENTERS; MILLWRIGHTS; & PILEDRIVERMEN	18.21	2.63

CARP1098A 05/01/1998

	Rates	Fringes
EAST FELICIANA, IBERVILLE (Excluding portion south of an East-West line from Darrow, Louisiana to the Atchafalaya River), POINTE COUPEE, ST. HELENA, ST. JAMES (North of the Mississippi River) & WEST FELICIANA PARISHES:		
CARPENTERS	10.40	1.95

CARP1476A 06/01/1998

	Rates	Fringes
ALLEN, BEAUREGARD, CAMERON, JEFFERSON DAVIS & VERNON (Excluding Fort Polk) PARISHES:		

CARP1811A 07/01/1998

	Rates	Fringes
CALDWELL, EAST CARROLL, FRANKLIN, JACKSON, LINCOLN, MOREHOUSE, OUACHITA, RICHLAND, TENSAS, UNION, WEST CARROLL & WINN PARISHES:		

CARPENTERS	12.30	1.85
MILLWRIGHTS	13.20	1.85
PILED RIVERMEN	12.80	1.85

CARP1897A 02/01/2001

	Rates	Fringes
ACADIA, EVANGELINE, IBERIA (West of Atchafalaya River), ST. LANDRY, ST. MARY (West of Atchafalaya River) & VERMILION PARISHES:		

CARPENTERS	13.51	2.35
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CARP9999A 02/01/1997

	Rates	Fringes
ASSUMPTION, IBERIA (East of the Atchafalaya River), IBERVILLE (South of an East-West line from Darrow, Louisiana to the Atchafalaya River), LAFOURCHE, PLAQUEMINES, ST. JAMES (South of the Mississippi River), ST. MARY (East of the Atchafalaya River), TANGIPAHOA, TERREBONNE & WASHINGTON PARISHES:		

CARPENTERS	14.21	3.20
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ELEC0130A 09/01/2001

	Rates	Fringes
ASSUMPTION, LAFOURCHE, PLAQUEMINES, ST. JAMES, ST. MARY (Northeast of the Atchafalaya River) & TERREBONNE PARISHES:		

ELECTRICIANS & CABLE SPLICERS	21.14	3.81
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ELEC0130C 01/01/2000

	Rates	Fringes
ASSUMPTION, LAFOURCHE, PLAQUEMINES, ST. JAMES, ST. MARY (Northeast of Atchafalaya River) & TERREBONNE PARISHES:		

LINE CONSTRUCTION:

Lineman	19.39	3.61
Hole Digging Equipment; Tractor with Winch & Derrick; Line Truck with Winch & Derrick Working in Hot Lines	14.54	3.47
Pole Truck & Trailer or Pole Hauling & Setting Truck (Not in Energized Lines)	12.60	3.41
Groundman	9.695	3.32
Truck without Winch	8.73	3.29

ACCOMPANYING AMENDMENT NO. 0010 TO SOLICITATION NO. DACA63-02-R-0001
ELEC0194A 01/04/2001

Rates Fringes
BIENVILLE, CLAIBORNE, DE SOTO, NATCHITOCHES (Northeast of the
Red River), RED RIVER & WEBSTER PARISHES:

ELECTRICIANS	18.90	7.53
CABLE SPLICERS	19.40	7.54

ELEC0194B 04/01/1998

Rates Fringes
BIENVILLE, CLAIBORNE, DE SOTO, NATCHITOCHES (East of the Red
River), RED RIVER & WEBSTER PARISHES:

LINE CONSTRUCTION:

Lineman	14.45	3.39
Operator	10.60	3.25
Groundman; Truck Driver	6.45	3.09

ELEC0446A 09/01/2001

Rates Fringes
CALDWELL, EAST CARROLL, FRANKLIN, JACKSON, LINCOLN, MADISON,
MOREHOUSE, OUACHITA, RICHLAND, TENSAS, UNION & WEST CARROLL
PARISHES:

ELECTRICIANS	17.35	3.80
CABLE SPLICERS	17.60	3.81

ELEC0446B 09/01/2001

Rates Fringes
CALDWELL, EAST CARROLL, FRANKLIN, JACKSON, LINCOLN, MADISON,
MOREHOUSE, OUACHITA, RICHLAND, TENSAS, UNION & WEST CARROLL
PARISHES:

LINE CONSTRUCTION:

Equipment Operator; Lineman	17.35	3.80
Cable Splicer	17.60	3.81
Groundman	11.28	3.62

ELEC0576A 09/01/2001

Rates Fringes
AVOYELLES, CATAHOULA, CONCORDIA, EVANGELINE, GRANT, LA SALLE,
NATCHITOCHES (Southwest of Red River), SABINE, VERNON & WINN
PARISHES:

ELECTRICIANS	17.75	3.41
CABLE SPLICERS	18.25	3.43

ELEC0576C 09/01/2001

Rates Fringes
AVOYELLES, CATAHOULA, CONCORDIA, EVANGELINE, GRANT, LA SALLE,
NATCHITOCHES (Southwest of Red River), SABINE, VERNON & WINN
PARISHES:

LINE CONSTRUCTION:

Equipment Operator; Lineman	17.75	3.41
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ACCOMPANYING AMENDMENT NO. 0010 TO SOLICITATION NO. DACA63-02-R-0001

Groundman	11.54	3.17
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ELEC0861A 10/01/2001

	Rates	Fringes
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ACADIA, ALLEN, BEAUREGARD, CAMERON, IBERIA, JEFFERSON DAVIS,
ST. MARY (Southwest of Atchafalaya River) & VERMILION PARISHES:

ELECTRICIANS	18.40	4.51
CABLE SPLICERS	18.90	4.51

ELEC0861C 05/01/1998

	Rates	Fringes
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ACADIA, ALLEN, BEAUREGARD, CAMERON, IBERIA, JEFFERSON DAVIS,
ST. MARY (Southwest of Atchafalaya River) & VERMILION PARISHES:

LINE CONSTRUCTION:

Equipment Operator; Lineman; & Truck Driver	19.70	3.96
Cable Splicer	20.20	3.98
Groundman	17.70	3.90

ELEC0995A 12/01/2001

	Rates	Fringes
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EAST FELICIANA, IBERVILLE, POINTE COUPEE, ST. HELENA, ST. LANDRY
& WEST FELICIANA PARISHES:

ELECTRICIANS:

Electrical Contracts Up to & Including 5 Million Dollars:		
Electrician	18.65	4.55
Cable Splicer	18.90	4.57

Electrical Contracts Over 5 Million
Dollars:

Electrician	19.30	4.62
Cable Splicer	19.55	4.65

ELEC0995C 12/01/2001

	Rates	Fringes
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EAST FELICIANA, IBERVILLE, POINTE COUPEE, ST. HELENA, ST. LANDRY
& WEST FELICIANA PARISHES:

LINE CONSTRUCTION:

Electrical Contracts Up To & Including \$5,000,000.00:		
Lineman; Technician	19.05	4.19
Cable Splicer	19.30	4.22
Heavy Equipment Operator	14.29	3.64
Truck Driver; Groundman	8.57	2.99

Electrical Contracts Over \$5,000,000.00:

Lineman; Technician	19.70	4.27
Cable Splicer	19.95	4.29
Heavy Equipment Operator	14.775	3.70
Truck Driver; Groundman	8.865	3.02

ACCOMPANYING AMENDMENT NO. 0010 TO SOLICITATION NO. DACA63-02-R-0001
ELEC1077A 06/01/2001

	Rates	Fringes
TANGIPAHOA & WASHINGTON PARISHES:		

ELECTRICIANS	18.05	3.04
CABLE SPLICERS	18.80	3.06

ELEV0016A 07/10/1999

	Rates	Fringes
ACADIA, ALLEN, ASSUMPTION, BEAUREGARD, CAMERON, EAST FELICIANA, EVANGELINE, IBERIA, IBERVILLE, JEFFERSON DAVIS, LAFOURCHE, PLAQUEMINES, POINTE COUPEE, ST. HELENA, ST. JAMES, ST. LANDRY, ST. MARY, TANGIPAHOA, TERREBONNE, VERMILION, WASHINGTON & WEST FELICIANA PARISHES:		

ELEVATOR MECHANICS	20.585	6.935+a+b
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FOOTNOTES:

a. Seven Paid Holidays: New Year's Day; Memorial Day;
Independence Day; Labor Day; Thanksgiving Day; The Day after
Thanksgiving; & Christmas Day

b. Employer contributes 8% of regular hourly rate to
vacation pay credit for employee who has worked in business
more than 5 years; 6% for less than 5 years

ELEV0098B 12/05/2000

	Rates	Fringes
AVOYELLES, BIENVILLE, CALDWELL, CATAHOULA, CLAIBORNE, CONCORDIA, DE SOTO, EAST CARROLL, FRANKLIN, GRANT, JACKSON, LA SALLE, LINCOLN, MADISON, MOREHOUSE, NATCHITOCHES, OUACHITA, RED RIVER, RICHLAND, SABINE, TENSAS, UNION, VERNON, WEBSTER, WEST CARROLL & WINN PARISHES:		

ELEVATOR MECHANICS	22.225	7.195+a+b
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FOOTNOTES:

a. 7 Paid Holidays: New Year's Day; Memorial Day; Independence
Day; Labor Day; Thanksgiving Day; the day after
Thanksgiving; & Christmas Day

b. Employer contributes 8% of regular hourly rate to vacation
pay credit for employee who has worked in business more than
5 years; 6% for less than 5 years.

ENGI0406A 05/01/1998

	Rates	Fringes
EAST FELICIANA, IBERVILLE, POINTE COUPEE, ST. HELENA & WEST FELICIANA PARISHES; ASSUMPTION & ST. JAMES PARISHES (Northwest of a straight line drawn from the city of Berwick to the city of Litcher); IBERIA PARISH (East & west of a line from the city of Berwick, north to the eastern boundary of the city of Krotz Springs); TANGIPAHOA & WASHINGTON PARISHES (West of a line drawn north from the city of Litcher to the east side of the city of Hammond to the Louisiana-Mississippi border):		

ACCOMPANYING AMENDMENT NO. 0010 TO SOLICITATION NO. DACA63-02-R-0001

POWER EQUIPMENT OPERATORS:

GROUP 1	16.11	2.50
GROUP 2	16.36	2.50
GROUP 3	16.61	2.50
GROUP 4	16.86	2.50
GROUP 5	17.11	2.50
GROUP 6	17.36	2.50
GROUP 7	15.86	2.50
GROUP 8	13.18	2.50
GROUP 9	11.61	2.50
GROUP 10	9.45	2.50
GROUP 11	10.78	2.50

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1 - Crane 60 Tons & Over; Crane Boom 100 ft. & Over, but less than 150 ft.; & Piledriver, Leads 100 ft. & Over, but less than 150 ft.

GROUP 2 - Crane 100 Tons, up to 125 Tons; Crane Boom 150 ft. & Over, but less than 225 ft.; & Piledriver, Leads 150 ft. & Over, but less than 225 ft.

GROUP 3 - Crane 125 Tons, up to 200 Tons; Crane Boom 225 ft. & Over, but less than 300 ft.; & Piledriver, Leads 225 ft. & Over, but less than 300 ft.

GROUP 4 - Crane 200 Tons, up to 300 Tons

GROUP 5 - Crane 300 Tons

GROUP 6 - Crane Boom 300 ft. & Over; & Piledriver 300 ft. & Over

GROUP 7 - Crane; Backhoe; Cableway; Concrete Mixer, 16S & Up; Derrick; Dragline; Dredge; Hoist, 2 Drums; Locomotive Crane; Paving Mixer; Piledriver; Road Paver; Roller on Asphalt or Brick (5 Tons or Over); Shovel; Sideboom Cat; Bulldozer; Motor Patrol; Scraper; Hydrolift Crane; Hydrolift Truck; Yard Crane; Cherry Picker, etc.; Foundation, Boring & Reaming Machine; Cement Stabilizer; Trenching Machine; Asphalt Spreader; Traxcavator & Similar Front End Loading Equipment with Scoop or Bucket of 1 cu. yd. or more capacity; Tug Boat; Turnapull, Euclid, DW-10 & Other Similar Self-Loading Earth Moving Equipment; Concrete Pump (Not Pumpcrete); & Computer Batch Plant

GROUP 8 - A-Frame Truck; Crew Boat; Fireman; Fork Lift; Straddle Buggy; Traxcavator, Scoopmobile & Similar Front End Loading Equipment with Scoop or Bucket, Under 1 cu. yd. capacity; Locomotive; Well Point System; Unit Operator; & Hoist, 1 Drum, 4 stories & Over

GROUP 9 - Air Compressor; Asphalt Plant Engineer; Blade Grader; Distributor (Bituminous Surface); Finishing Machine (Concrete, Paving); Hoist, 1 Drum, Less than 4 stories; Concrete Mixer Under 16-S; Oiler Driver; Pump Crete; Street & Road Sweeper; Roller (Except on Asphalt or Brick); Roller, Asphalt or Brick (Under 5 Tons); Post-Hole Digger; Tractor, Bush Hog & Similar Grass or Bush Cutting Equipment; & Batch Plant

ACCOMPANYING AMENDMENT NO. 0010 TO SOLICITATION NO. DACA63-02-R-0001
GROUP 10 - Oiler

GROUP 11 - Pump, Over 3" Suction; & Snatch Cat

ENGI0406B 11/01/1998

Allen, Beauregard, Cameron, Jefferson Davis & Vernon Parishes:
Rates Fringes

POWER EQUIPMENT OPERATORS:

Group 1	13.36	2.50
Group 2	9.25	2.50
Group 3	13.61	2.50
Group 4	13.86	2.50
Group 5	14.11	2.50
Group 6	14.36	2.50
Group 7	14.86	2.50
Group 8	8.59	2.50

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1 - Crane; Derrick; Deck Winch (2); Hi-Ho & Similar Type Equipment; Three Drum (or more) Stabilizer; Pull; Concrete Mixer 1 yd. & over; Paver; Ditching or Trenching Machine (Track Type); Mechanic & Equipment Welder; Wellpoint System; Hoist, 2 Drums or more; Hoist, 1 Drum, 40 Vertical ft. or more; Scraper; Bulldozer, Rubber-tired or Track, other than Farm-type; Scoopmobile; Motor Patrol; Gradeall; Roller on Hot Mix; Asphalt Paving Machine; Front End Loader, other than Farm-type, 1 cu. yd. or over; Shovel & Backhoe & Equivalent Equipment; Piledriver; Sideboom Cat; Boom Truck; Bush Hog; Cableway; Cherry Picker; Dredge; Foundation Drill Locomotive; Motorized Street Sweeper (Self-propelled) Push Cat; & Test Pump (Internal Combustion Engine Powered)

GROUP 2 - Two Drum & Single Drum Stabilizer; Front End Loader under 1 cu. yd.; A-Frame Truck when handling Steel or Pipe; Finishing Machine (Concrete); Power Subgrader; 2 Tractors (Crawler Type); 1 Drum Hoist Under 40 Vertical Ft.; Fireperson; Concrete Spreader; Pugmill; Bituminous Distributor on Surface Treatment & Equivalent Equipment; Bull Float & Equivalent Equipment; Job Greaseman; Work Boat, not requiring licensed operators; Inboard & Outboard Motored Crew Boat; Concrete Mixer Under 1 yd.; Spray Curing Machine; Roller on Subgrade; 1 Air Compressor over 125 cu. ft.; Form Grader; Asphalt Finisher Screedman; Pump Over 4"; Scale Operator; Crusher; Concrete Jointing Machine; Concrete Saw; Tack Machine & Equivalent Equipment; Pumpcrete; Electric Elevator (Inside); Oiler Driver; Farm-type Rubber Tired Tractor with attachments, except Backhoe; Kolum Buff & Similar Equipment; Fork Lift, 10-ton capacity & Under; Batch Plant; Oiler on Crane using Air to Drive Pile; Fireperson Operating Steam Valve, Unit Operator; Mixer (1 Sack Under); Oiler-Compressor; Oiler-Driver on Motor Crane; Oiler-Fireperson; Pump (Under 3" Suction); Scale Operator, Water Blast Pump; & Welding Machine

GROUP 3 - Operator on Crane 60 to 99 Tons; Crane with Boom 100 Ft. to 149 Ft.

GROUP 4 - Operator on Crane 100 to 125 Tons; Crane with Boom 150 Ft. to 224 Ft.

ACCOMPANYING AMENDMENT NO. 0010 TO SOLICITATION NO. DACA63-02-R-0001

GROUP 5 - Operator on Crane 126 to 200 Tons

GROUP 6 - Operator on Crane 201 to 300 Tons; Crane with Boom
225 Ft. to 299 Ft.

GROUP 7 - Operator on Crane Over 300 Tons; Crane with Boom 300
& Over

GROUP 8 - Oiler

ENGI0406C 05/06/1998

Rates Fringes
BIENVILLE, CLAIBORNE, DE SOTO, RED RIVER & WEBSTER PARISHES:

POWER EQUIPMENT OPERATORS:

GROUP 1	9.91	3.55
GROUP 2	11.79	3.55
GROUP 3	12.65	3.55
GROUP 4	13.50	3.55
GROUP 5	14.23	3.55
GROUP 6	14.87	3.55
GROUP 7	15.41	3.55

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1 - Unit Operator; Well Point; Water Pump (Over 6");
Fireman; Assistant to Engineer (Oiler, Signalman, Tender);
Motorized Sweeper; & Roller

GROUP 2 - A-Frame, Winch Truck; Farm Type Tractor with
Attachments (Excluding Backhoe); Single Drum Hoist (Less than 6
stories or 60 ft.); Elevator Operator; Kolum Buff Machine; Bull
Float; Concrete Spreader; Finish Machine; Dowel Bar Machine;
Oiler Driver; Distributor (Bituminous Surface); Forklift (Up to
10,000 lbs.); Ditchwitch & Similar Equipment (Under 66" Depth);
& Skytrack, Carrylift & Similar Equipment

GROUP 3 - Pull Cat; Concrete Pump (Under 6"); Straddle Buggy;
Crawler Tractor, Bulldozer & Front End Loader (D-4 Equivalent &
Under); A-Frame, Winch Truck (When Handling Steel or Pipe); &
Grease Serviceman

GROUP 4 - Asphalt Plant; Backhoe (Rubber Tired); Hydralift &
Boom Truck; Double Drum Hoist; Single Drum Hoist (Over 6
stories or 60 ft.); Motor Patrol (General); Multiengine
Scraper (Tandem or Dual Units); Hydrocrane (Less than 15
Tons); Winch Cat (Hoisting); Road Paver; Concrete Pump
(Over 6"); Tractorvator; Forklift (Over 10,000 lbs.); Asphalt
Spreader; Sideboom Cat; & Scoopmobile

GROUP 5 - Crane (Under 60 Tons); Clamshell, Dragline, Shovel,
Track Mounted Backhoe (Up to 2 Yds.); Motor Patrol (Finish);
Crawler, Tractor, Bulldozer, Front End Loader (Over D-4 &
Equivalent); Cableway; Concrete Mixer, Batch Plant; Derrick;
Trenching & Ditching Machine (Over 66" Depth); Hoist (Over 2
Drums); Piledriver; & Mechanic, Welder

GROUP 6 - Clamshell, Dragline, Shovel, Track Mounted Backhoe
(Over 2 Yds.); & Crane (Under 200 Tons)

GROUP 7 - Crane (200 Tons & Over)

 ENGI0406D 11/01/1998

	Rates	Fringes
ACADIA, AVOYELLES, CALDWELL, CATAHOULA, CONCORDIA, EAST CARROLL, EVANGELINE, FRANKLIN, GRANT, IBERIA (Excluding portion east & west of a line from the city of Berwick, north to the eastern boundary of the city of Krotz Springs), JACKSON, LA SALLE, LINCOLN, MADISON, MOREHOUSE, NATCHITOCHES, OUACHITA, RICHLAND, SABINE, ST. LANDRY, ST. MARY, TENSAS, UNION, VERMILION, WEST CARROLL & WINN PARISHES:		

POWER EQUIPMENT OPERATORS:

GROUP 1	9.55	2.20
GROUP 2	10.58	2.20
GROUP 3	10.68	2.20
GROUP 4	11.15	2.20
GROUP 5	13.32	2.20

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1 - Oiler

GROUP 2 - Oiler-Driver

GROUP 3 - Scaleperson

GROUP 4 - Air Compressor; Asphalt Plant; Bulldozer, D-4 & Equivalent & Under; Bullfloats; Concrete Spreader; Finishing Machines; Concrete Mixers (16-s or less); Concrete Saw; Distributors (Bituminous Surface); Dowell Bar Machine; Farm-type Tractor (With all attachments, except Backhoe); Fire-person; Fork Lifts (Other than Setting Steel, Machinery or Pipe); Hoist, 1 Drum less than 4 stories; Kolum Buff Machine; Pull Cats; Pump (3" & Over); Pump, Concrete (Under 6"); Rollers, except on Asphalt or Brick; Straddle Buggies; Sweepers on Streets & Roads (Motorized); Winch Truck, A-Frame (Other than handling Steel or Pipe)

GROUP 5 - Asphalt Spreader; Backhoe; Bulldozer, Over D-4 & Equivalent; Cableways; Concrete Mixer, Over 16-s; Cranes; Derricks; Ditching or Trenching Machines; Draglines; Fork Lifts (Setting Steel, Machinery or Pipe); Front End Loaders (Except Farm-type Tractors); Grease Service Person; Hoist, 1 Drum, 4 stories or more or 40 ft. (on Structures other than buildings); Hoist, 2 Drums & Over; Hydrolifts; Heavy Duty Mechanic; Motor Patrols; Piledrivers; Pump Concrete (6" & Over); Road Pavers; Rollers on Asphalt or Brick; Scoopmobiles; Scrapers; Sideboom Cats; Shovels; Tractor-vators; Welder; Winch Cats (Hoisting); Winch Truck, A-Frame (Handling Steel or Pipe)

 ENGI0406E 11/01/1998

	Rates	Fringes
LAFOURCHE, PLAQUEMINES & TERREBONNE PARISHES;		

ASSUMPTION, ST. JAMES, ST. MARY, TANGIPAOHA & WASHINGTON PARISHES
 (That portion of southeastern Louisiana bounded on the north by

the state of Mississippi, on the east by the state of Mississippi & the Mississippi Sound, on the south by the Gulf of Mexico & on the west by a line drawn as follows: beginning at a point on the Louisiana-Mississippi boundary in Washington Parish, due north of the town of Hackley, then southwesterly in a straight line to a point on the east bank of the Mississippi River at the southernmost point of Lutchter ((including Gramercy in the area)), thence in a more southwesterly direction in a straight line to midstream of the Atchafalaya River at Morgan City-Berwick ((including Morgan City in this area)), thence southerly on a line following midstream of the Atchafalaya River to the Atchafalaya Bay & in a line due south to the Gulf of Mexico):

POWER EQUIPMENT OPERATORS:

GROUP 1	17.23	2.50
GROUP 2	16.73	2.50
GROUP 3	16.23	2.50
GROUP 4	15.98	2.50
GROUP 5	15.73	2.50
GROUP 6	15.48	2.50
GROUP 7	15.23	2.50
GROUP 8	12.68	2.50
GROUP 9	12.49	2.50
GROUP 10	10.79	2.50
GROUP 11	9.08	2.50

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1 - Crane Over 400 Tons; & Crane Boom 400 Ft. & Over

GROUP 2 - Crane 300 Tons & Up to 400 Tons; Crane Boom 300 Ft. & Over, but Less Than 400 Ft.; & Tower Crane Over 30 Floors

GROUP 3 - Crane 200 Tons & Up to 300 Tons; Crane Boom 225 Ft. & Over, but Less Than 300 Ft.; & Tower Crane Boom Height 225 Ft. & Over Up to 30 Floors

GROUP 4 - Crane 125 Tons & Up to 200 Tons

GROUP 5 - Crane 100 Tons & Up to 125 Tons; Crane Boom 150 Ft. & Over, but Less Than 225 Ft.; Tower Crane Boom Height 150 Ft. & Over, but Less Than 225 Ft.

GROUP 6 - Crane 60 Tons & Above; Crane Boom 100 Ft. & Over, but Less Than 150 Ft.; Tower Crane Boom Height 100 Ft. & Over, but Less Than 150 Ft.

GROUP 7 - Heavy Equipment

GROUP 8 - Unit & wellpoint

GROUP 9 - Light Equipment

GROUP 10 - Batch Plant; & Oiler (Driver)

GROUP 11 - Oiler

IRON0058A 06/18/2001

Rates

Fringes

ACCOMPANYING AMENDMENT NO. 0010 TO SOLICITATION NO. DACA63-02-R-0001
PLAQUEMINES PARISH;

LAFOURCHE, ST. JAMES, TANGIPAHOA, TERREBONNE & WASHINGTON
PARISHES (West of a straight line drawn from the Louisiana-
Mississippi border, east of the city limits of Warrenton,
Louisiana, southwest through Hammond, Louisiana to the Gulf
of Mexico):

IRONWORKERS	17.30	4.70
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IRON0469A 06/18/2001

	Rates	Fringes
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MADISON PARISH (The cities of Mound & Delta & adjacent areas):

IRONWORKERS	17.30	4.41
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IRON0591A 06/18/2001

	Rates	Fringes
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DE SOTO, RED RIVER & WEBSTER PARISHES;

BIENVILLE, CLAIBORNE, NATCHITOCHEs & WINN PARISHES (West of a
line drawn directly south from the Arkansas-Louisiana border
through the cities of Arcadia & Cloutierville);

SABINE PARISH (North of a line drawn from the Natchitoches Parish
boundary west through the city of Peason to the Texas-Louisiana
border):

IRONWORKERS	17.30	4.40
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IRON0623A 06/18/2001

	Rates	Fringes
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ASSUMPTION, AVOYELLES, EAST FELICIANA, IBERIA, IBERVILLE, POINTE
COUPEE, ST. HELENA, ST. MARY & WEST FELICIANA PARISHES;

ACADIA, EVANGELINE, ST. LANDRY & VERMILION PARISHES (East of a
line drawn from the meeting point of the boundaries of the
Parishes of Avoyelles, Evangeline & Rapides, southeast along the
western city limits of Abbeville to the Gulf of Mexico);

CATAHOULA, CONCORDIA & LA SALLE PARISHES (South of a line drawn
from Natchez through the city of Cottonport to the Rapides
Parish line, then west along the southern border of Rapides
Parish);

LAFOURCHE, TANGIPAHOA, TERREBONNE & WASHINGTON PARISHES (West of
a straight line drawn from the Louisiana-Mississippi border,
west of the city limits of Warrenton, southwest through Hammond
to the Gulf of Mexico);

ST. JAMES PARISH (West of a straight line drawn from the
Louisiana-Mississippi border, west of the city limits of
Warrenton, southwest through Hammond to the Gulf of Mexico):

IRONWORKERS	17.30	4.40
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ACCOMPANYING AMENDMENT NO. 0010 TO SOLICITATION NO. DACA63-02-R-0001
IRON0710A 06/18/2001

	Rates	Fringes
ALLEN, BEAUREGARD, CALDWELL, CAMERON, EAST CARROLL, FRANKLIN, GRANT, JACKSON, JEFFERSON DAVIS, LINCOLN, MOREHOUSE, OUACHITA, RICHLAND, TENSAS, UNION, VERNON & WEST CARROLL PARISHES;		

ACADIA, EVANGELINE, ST. LANDRY & VERMILION PARISHES (Southwest of
Rapides Parish & west of a line south of the westernmost border
between Rapides & Evangeline);

BIENVILLE, CLAIBORNE, NATCHITOCHE & WINN PARISHES (East of a
line drawn directly south from the Arkansas-Louisiana border
through the cities of Arcadia & Cloutierville);

CATAHOULA, CONCORDIA & LA SALLE PARISHES (North of a line drawn
from Natchez through the city of Cottonport to the Rapides
Parish line);

MADISON PARISH (Except the cities of Mound, Delta & adjacent
areas):

IRONWORKERS	17.30	4.41
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LABO0207A 06/01/1999

	Rates	Fringes
ALLEN, BEAUREGARD, CAMERON, JEFFERSON DAVIS & VERNON PARISHES:		

LABORERS:

Vernon Parish (Ft. Polk)	9.75	1.75
Allen, Beauregard, Cameron, Jefferson Davis & Vernon (Exclu. Ft. Polk) Parishes	9.75	1.75

LABO0229A 05/01/1998

	Rates	Fringes
BIENVILLE, CLAIBORNE, DE SOTO, RED RIVER, SABINE & WEBSTER PARISHES:		

LABORERS:

Jackhammer Operators	7.50	.90
All Other Laborers	6.10	.90

LABO0689A 07/01/1998

	Rates	Fringes
ASSUMPTION, LAFOURCHE, PLAQUEMINES, ST. JAMES, TANGIPAHOA, TERREBONNE & WASHINGTON PARISHES:		

LABORERS:

Assumption, St. James, Tangipahoa & Washington Parishes	6.91	1.42
Lafourche & Plaquemines Parishes	8.13	1.42
Terrebonne parish	9.70	1.42

LABO0762A 11/01/1998

ACCOMPANYING AMENDMENT NO. 0010 TO SOLICITATION NO. DACA63-02-R-0001

Rates Fringes

ACADIA, AVOYELLES, EVANGELINE, GRANT, IBERIA, LA SALLE,
NATCHITOCHEs, ST. LANDRY, ST. MARY, VERMILION & WINN PARISHES:

LABORERS:

GROUP 1	8.92	.80
GROUP 2	9.12	.80

LABORER CLASSIFICATIONS

GROUP 1 - Building; Rotary Drill; & Foundation Drill Crewmen

GROUP 2 - Mason Mixer; Plaster Mixer; Mechanical Tool Operator
(Jackhammer, Vibrator, Tamper, Chipping Gun, Soil Tiller) &
Burner on Demolition; Sandblaster; Laying Concrete Pipe, Clay
Pipe, Plastic Pipe, Asbestos Cement Pipe, Casing Pipe &
Corrugated Metal Pipe, as Sewer Pipe & Underground Tile
(Caulkers, Joint Wipers, Hot Pot & Pipe Layers); Gas & Oil
Pipeline Laborer; Wrapper & Doper

LABO0831A 11/01/1998

Rates Fringes

CALDWELL, CATAHOULA, CONCORDIA, EAST CARROLL, FRANKLIN, JACKSON,
LINCOLN, MADISON, MOREHOUSE, OUACHITA, RICHLAND, TENSAS, UNION
& WEST CARROLL PARISHES:

LABORERS:

GROUP 1	8.45	.80
GROUP 2	8.60	.80
GROUP 3	8.75	.80

LABORER CLASSIFICATIONS

GROUP 1 - General; Tender (Brickmason, Stonemason, Cement Mason,
Carpenter & Plasterer); Stripping & Dismantling; Concrete Form
Work; Loading, Unloading, Carrying & Handling Steel & Steel
Mesh; Assisting to the Setting of Cut Stone, Granite or
Artificial Stone; Building Scaffold; & Shoring

GROUP 2 - Mechanical Tool Operator (Air, Electric, Motor,
Engine, Etc.); Sewer Pipelayer; Mortar Mixer (Hand or Machine);
Gunnite Operator; Tile, Terrazzo & Marble Setter Finishers

GROUP 3 - Pipe Doper & Burner

LABO1177A 05/01/1998

Rates Fringes

EAST FELICIANA, IBERVILLE, POINTE COUPEE, ST. HELENA &
WEST FELICIANA PARISHES:

LABORERS:

GROUP 1	9.50	1.05
GROUP 2	9.60	1.05
GROUP 3	9.65	1.05
GROUP 4	10.23	1.05
GROUP 5	9.98	1.05
GROUP 6	9.90	1.05
GROUP 7	7.21	1.05

ACCOMPANYING AMENDMENT NO. 0010 TO SOLICITATION NO. DACA63-02-R-0001
LABORER CLASSIFICATIONS

GROUP 1 - Building & General; Carpenter Tender; Scaffold Building; Handling & Conveying Materials; Handling Steel Pans; Tank Scalers; Mixing & Pouring Concrete; & Deck Hands

GROUP 2 - Scaler Using Boatswain Chair, Safety Belt or Power Tool; Power Tool Operator (Hammer Man, Tamper Man, Concrete Chipper or Cutter, Vibrator, Power Buggy, & Chain Saw Operator); Pipe & Sewer Man (Laying of all types of Pipe, Wiping Joints, Cleaning & Wrapping Pipe, Caulker & Grade Carrier)

GROUP 3 - Mason Tender; Plasterer Tender; Cement Mix (Wet or Dry); Hod Carrier; Mortar Mixer & Cement Mixer (Wet or Dry); Hot Pan Man; Concrete Cutter & Puddler; Asphalt Worker; Well Drilling Tender; Guniting Worker & Pot Tender (Sandblasting)

GROUP 4 - Blaster-Powder Man

GROUP 5 - Blaster-Powder Man Tender

GROUP 6 - Form Setter & Liner, Steel; Nozzle Operator (Guniting or Sandblasting)

GROUP 7 - Cleanup

PAIN0080B 05/15/2001

	Rates	Fringes
ACADIA, ALLEN (Part), BEAUREGARD (Part), CAMERON (Part), EVANGELINE (Part) & JEFFERSON DAVIS (Part) PARISHES:		

GLAZIERS	15.60	2.40
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PAIN0080D 11/01/2000

	Rates	Fringes
ACADIA (Part), ALLEN, BEAUREGARD, CAMERON, EVANGELINE (Part) & JEFFERSON DAVIS PARISHES:		

PAINTERS	13.94	1.15
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PAIN0080I 04/01/2001

	Rates	Fringes
ASSUMPTION (South of Grand Bayou), LAFOURCHE, PLAQUEMINES, ST. JAMES, ST. MARY (Morgan City Area), TERREBONNE & WASHINGTON PARISHES:		

PAINTERS:

Power Plants, Refineries, Cracking Plants, Tank Farms, Chemical Processing Plants, Missile Plants, Smoke Stacks & Cat Crackers	14.99	3.10
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All Other Commercial Building Work	13.99	3.10
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PAIN0080K 04/01/2000

	Rates	Fringes
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ACCOMPANYING AMENDMENT NO. 0010 TO SOLICITATION NO. DACA63-02-R-0001
BIENVILLE, CALDWELL, CATAHOULA, CLAIBORNE, DE SOTO, EAST CARROLL,

FRANKLIN, GRANT, JACKSON, LA SALLE, LINCOLN, MADISON, MOREHOUSE,
NATCHITOCHES, OUACHITA, RED RIVER, RICHLAND, SABINE, TENSAS,
UNION, VERNON, WEBSTER, WEST CARROLL & WINN PARISHES:

PAINTERS	11.00	1.90
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PAIN0728B 05/01/1997

	Rates	Fringes
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ACADIA (Part), ASSUMPTION (North of Hwy #22), CONCORDIA,
EAST FELICIANA, IBERIA, IBERVILLE, POINTE COUPEE, ST. HELENA,
ST. LANDRY (Southern half), ST. MARY (Excluding Morgan City
Area), TANGIPAHOA (West of Hwy #51), VERMILION & WEST FELICIANA
PARISHES:

PAINTERS:

Drywall; Taping; Floating;

Sheetrock; & Texture	12.90	1.45
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Brush; Sandblasting; Spray & Steel	14.65	1.45
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PAIN1244N 03/01/2000

	Rates	Fringes
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ALLEN (Part), ASSUMPTION, AVOYELLES, BEAUREGARD (Part),
BIENVILLE, CALDWELL, CAMERON (Part), CATAHOULA, CLAIBORNE,
CONCORDIA, DE SOTO, EAST CARROLL, EAST FELICIANA,
EVANGELINE (Part), FRANKLIN, GRANT, IBERIA, IBERVILLE, JACKSON,
JEFFERSON DAVIS (Part), LA SALLE, LAFOURCHE, LINCOLN, MADISON,
MOREHOUSE, NATCHITOCHES, OUACHITA, PLAQUEMINES, POINTE COUPEE,
RED RIVER, RICHLAND, SABINE, ST. HELENA, ST. JAMES, ST. LANDRY,
ST. MARY, TANGIPAHOA, TENSAS, TERREBONNE, UNION, VERMILION,
VERNON, WASHINGTON, WEBSTER, WEST CARROLL, WEST FELICIANA & WINN
PARISHES:

GLAZIERS	15.20	2.94
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PLAS0483A 05/01/1998

	Rates	Fringes
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ASSUMPTION, EAST FELICIANA, IBERVILLE, POINTE COUPEE, ST. HELENA,
ST. JAMES, TANGIPAHOA & WEST FELICIANA PARISHES:

PLASTERERS	15.20	
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PLAS0487A 04/01/1998

	Rates	Fringes
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ALLEN, AVOYELLES, BEAUREGARD, CAMERON, CATAHOULA, CONCORDIA,
EVANGELINE, GRANT, JEFFERSON DAVIS, LA SALLE & VERNON PARISHES:

CEMENT MASONS	13.42	
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PLASTERERS	14.20	
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PLAS0567A 07/01/1999

	Rates	Fringes
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LAFOURCHE, PLAQUEMINES & TERREBONNE PARISHES:

ACCOMPANYING AMENDMENT NO. 0010 TO SOLICITATION NO. DACA63-02-R-0001
 CEMENT MASONS (Building Foundations
 only)

14.08 1.68

PLAS0685A 10/01/1998

Rates Fringes
 ACADIA, IBERIA, ST. LANDRY, ST. MARY & VERMILION PARISHES:

CEMENT MASONS 11.00 2.20

PLAS0685C 07/01/1998

Rates Fringes
 ACADIA, IBERIA, ST. LANDRY, ST. MARY & VERMILION PARISHES:

PLASTERERS 14.25 .01

PLAS0812A 05/01/1998

Rates Fringes
 ASSUMPTION, EAST FELICIANA, IBERVILLE, POINT COUPEE, ST. HELENA,
 ST. JAMES, TANGIPAHOA & WEST FELICIANA PARISHES:

CEMENT MASONS 13.55

PLAS0903A 05/01/1998

Rates Fringes
 BIENVILLE, CLAIBORNE, DE SOTO, RED RIVER & WEBSTER PARISHES:

CEMENT MASONS 9.65 .85

PLUM0060A 06/01/2001

Rates Fringes
 LAFOURCHE, PLAQUEMINES, ST. JAMES (Eastern part), TANGIPAHOA
 (Cities of Robert, Hammond, Ponchatoula, Tickfaw, Baptist &
 Pumpkin Center) TERREBONNE & WASHINGTON PARISHES:

PIPEFITTERS; PLUMBERS; &
 STEAMFITTERS 19.65 4.56

PLUM0106A 11/01/2001

Rates Fringes
 ACADIA, ALLEN, BEAUREGARD, CAMERON, IBERIA (West of Hwy 31 &
 Hwy 83), JEFFERSON DAVIS, ST. LANDRY & VERMILION PARISHES:

PLUMBERS & STEAMFITTERS 17.38 4.04

PLUM0141A 08/01/2000

Rates Fringes
 BIENVILLE, CLAIBORNE, DE SOTO, RED RIVER, SABINE & WEBSTER
 PARISHES;

NATCHITOCHES & VERNON PARISHES (Northwest of a line drawn from
 Natchitoches to Anacoco through Bellwood & north of Hwy #111
 between Anacoco & Haddens);

ACCOMPANYING AMENDMENT NO. 0010 TO SOLICITATION NO. DACA63-02-R-0001
WINN PARISH (West of a line drawn from Winnfield to the junction
of the Parish boundaries of Winn, Bienville & Jackson):

PLUMBERS & PIPEFITTERS	17.90	5.55
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PLUM0198A 01/01/2002

	Rates	Fringes
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ASSUMPTION, EAST FELICIANA, IBERIA (East of Hwy 31 & Hwy 83),
IBERVILLE, POINTE COUPEE, ST. HELENA, ST. JAMES (Western part),
ST. MARY, TANGIPAHOA (Excluding Cities of Robert, Hammond,
Ponchatoula, Tickfaw, Baptist & Pumpkin Center) & WEST FELICIANA
PARISHES:

PLUMBERS & STEAMFITTERS	21.00	4.40
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PLUM0247A 05/01/2001

	Rates	Fringes
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AVOYELLES, CATAHOULA, CONCORDIA, EVANGELINE, GRANT, LA SALLE,
NATCHITOCHE (City limits of Natchitoches, Hwy #6 to Hagedwood &
Hwy #117), & VERNON (Ft. Polk & Hwy #117, south to Leesville)
PARISHES:

PLUMBERS & STEAMFITTERS:

Work where contract price of the mechanical work is less than \$3,000,000.00	17.20	3.70
Work where contract price of the mechanical work is more than \$3,000,000.00	18.20	3.70

PLUM0659A 07/01/2001

	Rates	Fringes
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CALDWELL, EAST CARROLL, FRANKLIN, JACKSON, LINCOLN, MADISON,
MOREHOUSE, OUACHITA, RICHLAND, TENSAS, UNION, WEST CARROLL &
WINN (North of Hwy #84) PARISHES:

PIPEFITTERS; PLUMBERS; & STEAMFITTERS	17.00	3.95
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ROOF0059A 07/01/1998

	Rates	Fringes
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BIENVILLE, CLAIBORNE, DE SOTO, NATCHITOCHE, RED RIVER, SABINE
& WEBSTER PARISHES:

ROOFERS:

Roofers	9.75	.24
Kettlemen	6.50	.24

ROOF0076A 05/01/1998

	Rates	Fringes
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ALLEN, BEAUREGARD, CAMERON, EVANGELINE, JEFFERSON DAVIS,
VERMILION & VERNON PARISHES:

ROOFERS	12.90	.20
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ACCOMPANYING AMENDMENT NO. 0010 TO SOLICITATION NO. DACA63-02-R-0001

ROOF0141A 05/01/1998

Rates Fringes
 ASSUMPTION, LAFOURCHE, PLAQUEMINES, ST. JAMES, ST. MARY,
 TERREBONNE & WASHINGTON PARISHES:

ROOFERS	12.00	1.90
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ROOF0191A 01/01/1998

Rates Fringes
 CALDWELL, CATAHOULA, CONCORDIA, EAST CARROLL, FRANKLIN, GRANT,
 JACKSON, LA SALLE, LINCOLN, MADISON, MOREHOUSE, OUACHITA,
 RICHLAND, TENSAS, UNION, WEST CARROLL & WINN PARISHES:

ROOFERS:		
Roofers	12.30	.30
Kettlemen	9.40	.30

ROOF0317A 10/01/2000

Rates Fringes
 ACADIA, AVOYELLES, EAST FELICIANA, IBERIA, IBERVILLE,
 POINTE COUPEE, ST. HELENA, ST. LANDRY, TANGIPAHOA &
 WEST FELICIANA PARISHES:

ROOFERS	15.50	2.70
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SFLA0669A 01/01/2002

Rates Fringes
 SPRINKLER FITTERS 21.52 6.55

SHEE0011A 11/01/2001

Rates Fringes
 LAFOURCHE, PLAQUEMINES, ST. JAMES, TERREBONNE & WASHINGTON
 PARISHES:

SHEET METAL WORKERS	20.17	5.94
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SHEE0021A 08/01/2000

Rates Fringes
 ACADIA, ALLEN, ASSUMPTION, BEAUREGARD, CAMERON, EAST FELICIANA,
 EVANGELINE, IBERIA, IBERVILLE, JEFFERSON DAVIS, POINTE COUPEE,
 ST. HELENA, ST. LANDRY, ST. MARY, TANGIPAHOA, VERMILION &
 WEST FELICIANA PARISHES:

SHEET METAL WORKERS	19.95	4.52
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SHEE0361A 01/01/2002

Rates Fringes
 AVOYELLES, BIENVILLE, CALDWELL, CATAHOULA, CLAIBORNE, CONCORDIA,
 DE SOTO, EAST CARROLL, FRANKLIN, GRANT, JACKSON, LA SALLE,
 LINCOLN, MADISON, MOREHOUSE, NATCHITOCES, OUACHITA, RED RIVER,
 RICHLAND, SABINE, TENSAS, UNION, VERNON, WEBSTER, WEST CARROLL &
 WINN PARISHES:

TEAM0005A 10/04/1998

	Rates	Fringes
ACADIA, ASSUMPTION, EAST FELICIANA, EVANGELINE, IBERIA, IBERVILLE, POINTE COUPEE, ST. HELENA, ST. JAMES, ST. LANDRY, ST. MARY, TANGIPAHOA, VERMILION, WASHINGTON & WEST FELICIANA PARISHES:		

TRUCK DRIVERS:

Pickups	10.98
Fuel	11.35
Over 1 Ton, Up to, but not Including 3 Tons	11.23
3 Tons, Up to, but not Including 5 Tons	11.35
5 Tons & Over, Including, but not limited to Winch, Dempsey, Dumpster, Lowboy, Semi-Trailer, Euclid, Tournapull & Similar Equipment Used for Transporting Material	11.52
Larger Trucks (Carry Capacity of rear Axles 50,000 lbs. & Over	11.65
Winch with "A" Frame when used for transporting material	11.48

TEAM0270A 11/01/1998

	Rates	Fringes
LAFOURCHE, PLAQUEMINES & TERREBONNE PARISHES:		

TRUCK DRIVERS:

Up to 1 1/2 Tons	12.59
1 1/2 Tons up to, but not including 3 Tons	12.70
3 Tons up to, but not including 5 Tons	12.75
5 Tons & Over	13.01

TEAM0568A 11/01/1998

	Rates	Fringes
BIENVILLE, CLAIBORNE, DE SOTO, RED RIVER & WEBSTER PARISHES:		

TRUCK DRIVERS:

GROUP 1	9.87
GROUP 2	9.95
GROUP 3	10.20
GROUP 4	10.35
GROUP 5	10.50
GROUP 6	10.70
GROUP 7	11.05

TRUCK DRIVER CLASSIFICATIONS

GROUP 1 - Pickup; Spotter & Dumper of Dirt, Gravel, Etc.

GROUP 2 - Stake Body; Flat Bed

ACCOMPANYING AMENDMENT NO. 0010 TO SOLICITATION NO. DACA63-02-R-0001
GROUP 3 - Single Axle Dump & Water Truck; Transit Mix, Up to
& Including 3 yds.

GROUP 4 - Tandem Axle Dump, Batch & Water Truck over 3 tons;
Pickup with Trailer

GROUP 5 - Mississippi Wagon, Float, Tractor Trailer; Rubber
Tired Tractor & Wobble Wheels

GROUP 6 - Euclid; Lowboy; Dempsey Dumpster; Koehring Dump;
5 Axle Truck; Transit Mix Over 3 yds.

GROUP 7 - Fork Lift

WELDERS - Receive rate prescribed for craft performing operation
to which welding is incidental.
=====

Unlisted classifications needed for work not included within
the scope of the classifications listed may be added after
award only as provided in the labor standards contract clauses
(29 CFR 5.5(a)(1)(v)).

In the listing above, the "SU" designation means that rates
listed under that identifier do not reflect collectively
bargained wage and fringe benefit rates. Other designations
indicate unions whose rates have been determined to be
prevailing.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can
be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a
position on a wage determination matter
- * a conformance (additional classification and rate)
ruling

On survey related matters, initial contact, including requests
for summaries of surveys, should be with the Wage and Hour
Regional Office for the area in which the survey was conducted
because those Regional Offices have responsibility for the
Davis-Bacon survey program. If the response from this initial
contact is not satisfactory, then the process described in 2.)
and 3.) should be followed.

With regard to any other matter not yet ripe for the formal
process described here, initial contact should be with the Branch
of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

2.) If the answer to the question in 1.) is yes, then an
interested party (those affected by the action) can request
review and reconsideration from the Wage and Hour Administrator

ACCOMPANYING AMENDMENT NO. 0010 TO SOLICITATION NO. DACA63-02-R-0001
(See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

4.) All decisions by the Administrative Review Board are final.

END OF GENERAL DECISION

General Decision Number LA020039

Superseded General Decision No. LA010039

State: Louisiana

Construction Type:
HIGHWAY

County(ies):

ALLEN	CAMERON	LA SALLE
AVOYELLES	GRANT	VERNON
BEAUREGARD	JEFFERSON DAVIS	

HIGHWAY CONSTRUCTION PROJECTS (Does not include building structures in rest area projects)

Modification Number	Publication Date
0	03/01/2002

COUNTY(ies):

ALLEN	CAMERON	LA SALLE
AVOYELLES	GRANT	VERNON
BEAUREGARD	JEFFERSON DAVIS	

SULA3002A 10/29/1996

	Rates	Fringes
CARPENTERS (Including Form Work)	9.11	1.60
CEMENT MASONS (Does Not Include Rebar)	8.55	
IRONWORKERS, Reinforcing	8.15	
LABORERS:		
Unskilled	6.20	
Flagger	5.63	
POWER EQUIPMENT OPERATORS:		
Backhoe	9.23	
Dozer	9.19	
Front End Loader	8.66	
Grader	8.68	
Roller	8.00	
Scraper	8.70	

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

=====

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29 CFR 5.5(a)(1)(v)).

In the listing above, the "SU" designation means that rates listed under that identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

ACCOMPANYING AMENDMENT NO. 0010 TO SOLICITATION NO. DACA63-02-R-0001
WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

4.) All decisions by the Administrative Review Board are final.

END OF GENERAL DECISION

General Decision Number LA020009

Superseded General Decision No. LA010009

State: Louisiana

Construction Type:
HEAVY

County(ies):

ASSUMPTION	GRANT	SABINE
AVOYELLES	IBERIA	ST HELENA
BIENVILLE	IBERVILLE	ST MARY
CALDWELL	JACKSON	TANGIPAHOA
CATAHOULA	LA SALLE	TENSAS
CLAIBORNE	LINCOLN	UNION
CONCORDIA	MADISON	VERMILION
DE SOTO	MOREHOUSE	VERNON
EAST CARROLL	NATCHITOCHES	WASHINGTON
EAST FELICIANA	POINTE COUPEE	WEST CARROLL
EVANGELINE	RED RIVER	WEST FELICIANA
FRANKLIN	RICHLAND	WINN

HEAVY CONSTRUCTION PROJECTS (Does not include Elevated Storage Tanks)

Modification Number	Publication Date
0	03/01/2002

COUNTY(ies):

ASSUMPTION	GRANT	SABINE
AVOYELLES	IBERIA	ST HELENA
BIENVILLE	IBERVILLE	ST MARY
CALDWELL	JACKSON	TANGIPAHOA
CATAHOULA	LA SALLE	TENSAS
CLAIBORNE	LINCOLN	UNION
CONCORDIA	MADISON	VERMILION
DE SOTO	MOREHOUSE	VERNON
EAST CARROLL	NATCHITOCHES	WASHINGTON
EAST FELICIANA	POINTE COUPEE	WEST CARROLL
EVANGELINE	RED RIVER	WEST FELICIANA
FRANKLIN	RICHLAND	WINN

ELEC0130J 09/01/2001

	Rates	Fringes
ASSUMPTION & ST. MARY (Northeast of the Atchafalaya River)		
PARISHES:		

ELECTRICIANS	21.14	3.81
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ELEC0194G 01/04/2001

	Rates	Fringes
BIENVILLE, CLAIBORNE, DE SOTO, NATCHITOCHES (Northeast of the Red River) & RED RIVER PARISHES:		

ELECTRICIANS	18.90	7.53
CABLE SPLICERS	19.40	7.54

ACCOMPANYING AMENDMENT NO. 0010 TO SOLICITATION NO. DACA63-02-R-0001
ELEC0446D 09/01/2001

Rates Fringes
CALDWELL, EAST CARROLL, FRANKLIN, JACKSON, LINCOLN, MADISON,
MOREHOUSE, RICHLAND, TENSAS, UNION & WEST CARROLL PARISHES:

ELECTRICIANS	17.35	3.80
CABLE SPLICERS	17.60	3.81

ELEC0576B 09/01/2001

Rates Fringes
AVOYELLES, CATAHOULA, CONCORDIA, EVANGELINE, GRANT, LA SALLE,
NATCHITOCHES (Southwest of Red River), SABINE, VERNON & WINN
PARISHES:

ELECTRICIANS	17.75	3.41
CABLE SPLICERS	18.25	3.43

ELEC0861D 10/01/2001

Rates Fringes
IBERIA, ST. MARY (Southwest of Atchafalaya River) & VERMILION
PARISHES:

ELECTRICIANS	18.40	4.51
CABLE SPLICERS	18.90	4.51

ELEC0995B 12/01/2001

Rates Fringes
EAST FELICIANA, IBERVILLE, POINTE COUPEE, ST. HELENA &
WEST FELICIANA PARISHES:

ELECTRICIANS:

Electrical Contracts Up to &
Including 5 Million Dollars:

Electrician	18.65	4.55
Cable Splicer	18.90	4.57

Electrical Contracts Over 5 Million
Dollars:

Electrician	19.30	4.62
Cable Splicer	19.55	4.65

ELEC1077A 06/01/2001

Rates Fringes
TANGIPAHOA & WASHINGTON PARISHES:

ELECTRICIANS	18.05	3.04
CABLE SPLICERS	18.80	3.06

PLUM0060E 06/01/2001

Rates Fringes
TANGIPAHOA (Cities of Robert, Hammond, Ponchatoula, Tickfaw,
Baptist & Pumpkin Center) & WASHINGTON PARISHES:

PIPEFITTERS; PLUMBERS; & STEAMFITTERS	19.65	4.56
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PLUM0106B	11/01/2001		
		Rates	Fringes
IBERIA (West of Hwy 31 & Hwy 83) & VERMILION PARISHES:			
PLUMBERS & STEAMFITTERS		17.38	4.04
PLUM0141C	08/01/2000		
		Rates	Fringes
BIENVILLE, CLAIBORNE, DE SOTO, RED RIVER & SABINE PARISHES;			
NATCHITOCHES & VERNON PARISHES (Northwest of a line drawn from Natchitoches to Anacoco through Bellwood & north of Hwy #111 between Anacoco & Haddens);			
WINN PARISH (West of a line drawn from Winnfield to the junction of the Parish boundaries of Winn, Bienville & Jackson):			
PLUMBERS & PIPEFITTERS		17.90	5.55
PLUM0198B	01/01/2002		
		Rates	Fringes
ASSUMPTION, EAST FELICIANA, IBERIA (East of Hwy 31 & Hwy 83), IBERVILLE, POINTE COUPEE, ST. HELENA, ST. MARY, TANGIPAHOA (Excluding Cities of Robert, Hammond, Ponchatoula, Tickfaw, Baptist & Pumpkin Center) & WEST FELICIANA PARISHES:			
PLUMBERS & STEAMFITTERS		21.00	4.40
PLUM0247A	05/01/2001		
		Rates	Fringes
AVOYELLES, CATAHOULA, CONCORDIA, EVANGELINE, GRANT, LA SALLE, NATCHITOCHES (City limits of Natchitoches, Hwy #6 to Hagerwood & Hwy #117), & VERNON (Ft. Polk & Hwy #117, south to Leesville) PARISHES:			
PLUMBERS & STEAMFITTERS:			
Work where contract price of the mechanical work is less than \$3,000,000.00			
		17.20	3.70
Work where contract price of the mechanical work is more than \$3,000,000.00			
		18.20	3.70
PLUM0659A	07/01/2001		
		Rates	Fringes
CALDWELL, EAST CARROLL, FRANKLIN, JACKSON, LINCOLN, MADISON, MOREHOUSE, OUACHITA, RICHLAND, TENSAS, UNION, WEST CARROLL & WINN (North of Hwy #84) PARISHES:			
PIPEFITTERS; PLUMBERS; & STEAMFITTERS		17.00	3.95
SULA2004A	09/01/1987		

	Rates	Fringes
CARPENTERS	10.37	
IRONWORKERS, STRUCTURAL	8.50	
LABORERS:		
Unskilled	5.69	
Pipelayers	6.46	
PILEDRIVERMEN	9.75	
POWER EQUIPMENT OPERATORS:		
Backhoes	9.17	
Bulldozers	8.79	
Front End Loaders	7.77	
TRUCK DRIVERS	7.26	
WATER WELL DRILLERS	8.16	1.36

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.
=====

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WAGE DETERMINATION APPEALS PROCESS

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Branch of Construction Wage Determinations
Wage and Hour Division

ACCOMPANYING AMENDMENT NO. 0010 TO SOLICITATION NO. DACA63-02-R-0001
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N. W.
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The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

4.) All decisions by the Administrative Review Board are final.

END OF GENERAL DECISION

CHAPTER 111 - FACILITY PERFORMANCE

PERFORMANCE

A. Basic Function:

1. Provide built elements and site modifications as required to fulfill needs described in the project program.
2. Substructure: Elements below grade and in contact with the ground in connection with the new building entrance and new mechanical room. Existing building substructure shall be verified for new loading conditions by a licensed structural engineer prior to the start of construction.
3. Shell: New Building superstructure, exterior enclosure and the roofing at the new building entrance and new mechanical room. Existing Building superstructure, exterior enclosure and roofing shall be maintained, upgraded and repaired as necessary to maintain a weather proof shell including repair and replacement of ~~existing window glazing as required.~~ (AM#10) all existing window glazing. Existing building structure shall be verified for new loading conditions by a licensed structural engineer prior to the start of construction. (AM#10) Harden and reinforce exterior brick veneer/CMU walls in Wing No. 3 on Floors 1-5 between Grids B33 and B35 and Grids B35 and E35 to prevent collapse and minimize hazardous flying debris for a bomb blast of 100 kilograms with a standoff distance of 67 feet.
4. Interiors: New interior construction, walls, doors, ceilings, finishes and fixtures. Existing stairs and elevator equipment shall remain in service. Stairs shall be repainted and new elevator cab interior finishes shall be provided. (AM#10) Locate mail room on exterior wall near loading dock in accordance with the Department of Defense Antiterrorism/Force Protection Construction Standards.
5. Services: Mechanized, artificial, automatic, and unattended means of supply, distribution, transport, removal, disposal, protection, control, and communication.
6. Equipment and Furnishings: Fixed and movable elements operated or used by occupants in the functioning of the project.
7. Demolition: Removal of unneeded and undesirable existing elements.
- ~~8. Sitework: Modifications to the site, site improvements, and utilities.~~
8. Sitework: Modifications to the site, (AM#10) including a minimum of 300 parking spaces in two parking lots, security berms, security bollards, security gate at loading dock drive, helipad, site improvements, and utilities. Optional Bid Item No. 3 shall include improvements to existing parking lot at the corner of Corps Road and Patterson Drive.
9. Code: Make all portions of the project comply with the code. The code referred to herein consists of all applicable local, State, and federal regulations, including those listed below:
 - a. Federal Regulatory Requirements:
 - 1) Americans with Disabilities Act of 1990, as a public accommodation, as implemented in:
 - a) 28 CFR 35, Department of Justice regulations relating to State and local governments, including ADAAG.
 - b) 28 CFR 36, Department of Justice regulations, including ADAAG-1994.
 - 2) 29 CFR 1910-1997, Occupational Safety and Health Standards, as a work place.
 - b. ~~Federal regulatory~~ Federal regulatory requirements, which incorporate and/or amend the following:
 - 1) ICBO Uniform Building Code, Fire Code, and Mechanical Code, 1997.
 - 2) NFPA 101, Safety to Life From Fire in Buildings and Structures, 1997.
 - 3) IAPMO Uniform Plumbing Code, 1997.
 - 4) NFPA 70, National Electrical Code, 1999.
 - 5) CABO Model Energy Code, 1997.
 - 6) Erosion and sedimentation control regulations.

- c. Non-Regulatory Criteria Documents: In addition to specific regulatory requirements, the following documents are also incorporated into the definition of "the code" for the purposes of this project, except for administrative provisions contained therein; where referenced, the role of the code official described in the document will be performed by Government.

10. 29 CFR 1910; Occupational Safety and Health Standards.
11. 29 CFR 1926; Safety and Health Regulations for Construction.
12. 40 CFR 61; National Emissions Standards for Hazardous Air Pollutants.
13. 40 CFR 261; Identification and Listing of Hazardous Waste.
14. 40 CFR 262; Standards Applicable to Generators of Hazardous Waste.
15. 40 CFR 265; Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Storage, and Disposal Facilities.
16. 40 CFR 763; Asbestos.
17. 42 CFR 84; Approval of Respiratory Protective Devices.
18. 49 CFR 107; Hazardous Materials Program Procedures.
19. 49 CFR 171; General Information, Regulations and Definitions.
20. 49 CFR 172; Hazardous Materials Table, Special Provisions, Hazardous Materials Communications, Emergency Response Information, and Training Requirements.
21. 49 CFR 173; Shippers - General Requirements for Shipments and Packagings.
22. Fort Polk Installation Guide.
23. In addition to the requirements of this chapter, comply with requirements of Chapter 1 - Program Summary and Chapter 00830 - Design and Construction Procedures.

B. Amenity and Comfort:

1. Thermal Performance: Design and construct to provide comfortable interior environment in accordance with the code and the following:
 - a. Summer Interior Design Conditions:
 - 1) Daytime Setpoint: 74 deg F, plus or minus 2 deg F except as specified in the project program or in Chapter D3.
 - 2) Night Setback: 78 deg F.
 - 3) Interior Relative Humidity: 50 percent, maximum.
 - b. Winter Interior Design Conditions:
 - 1) Daytime Setpoint: 68 deg F, plus or minus 2 deg F except as specified in the project program or in Chapter D3..
 - 2) Night Setback: 60 deg F.
 - 3) Interior Relative Humidity: 50 percent, minimum.
 - c. Outside Air Design Conditions:
 - 1) Summer Outside Air Design Temperature: 1 percent cooling design condition listed in the ASHRAE Fundamentals Handbook.
 - 2) Winter Outside Air Design Temperature: 99.6 percent heating design condition listed in the ASHRAE Fundamentals Handbook.
 - d. Energy Design Wind Speed: 15 mph.

C. Health and Safety:

1. Fire Resistance: Provide Type II-A construction in accordance with ICC International Code.
2. Prevention of Accidental Injury: As required by code and as follows:
 - a. Safety Glazing: As defined by 16 CFR 1201; provide in locations required by code, glazed areas subject to human impact, glazed areas at grade, and doors.

3. Lightning Hazard: Design to prevent damage to occupants, structure, services, and contents due to lightning strikes.
 - a. Provide protection equivalent to that specified in NFPA 780-1997; supplementary strike termination devices, ground conductors, and grounding electrodes are required only where the integral portions of the structure cannot perform those functions.
 - b. Ground Resistance Measurement Methods: As described in NFPA 780-1997, Appendix I, or IEEE 81-1983.
 - c. Substantiation:
 - 1) Design Development: If methods prescribed by NFPA 780-1997 are not used, description of engineering basis of design, including grounding terminal design.
 - 2) Design Development: If grounding in very shallow or dry soil, or in rock, is required, ground resistance measurements and engineering analysis of ground terminal design.
 - 3) Design Development: Diagrams showing locations of strike (air) terminals and zones of protection; identification of internal components that require bonding to equalize potential.
 - 4) Construction Documents: Engineering analysis of equalization of potential to metal bodies within the structure.
 - 5) Construction Documents: Drawings showing locations and sizes of conductors, bonding of metal bodies, and components; detailed installation specifications.
 - 6) Commissioning: Continuity tests for grounding conductors, equipotential bonding of other systems, and ground terminals; ground resistance test for each ground terminal, or equivalent taking into account related grounding systems.
 - 7) Commissioning: Certification of system complying with UL Master Label or Lightning Protection Institute Certified System requirements.
 - 8) Closeout: Maintenance and inspection procedures.
 - 9) Closeout: Project record data; location of ground terminals, ground resistance and soil conditions at time of test.
4. Health Hazards:
 - a. Design to prevent growth of fungus, mold, and bacteria on surfaces and in concealed spaces.
 - b. Hazardous Construction Materials: Design and construct to comply with the requirements of the code and the following:
 - 1) All existing friable asbestos and asbestos-containing materials must be removed or abated to the extent required by and using procedures specified by federal, state, and local regulations. Refer to Specification Section 13280 Asbestos Abatement in Volume 3.
 - 2) All existing lead-based paint must be removed or abated to the extent required by and using procedures specified by federal, state, and local regulations. Refer to Specification Section 13281 Lead Hazard Control Activities in Volume 3.
 - 3) All existing mold must be removed or abated to the extent required by and using procedures specified in Section 13290 Mold Abatement in Volume 3.
 - 4) All existing PCB-containing equipment and PCB-contaminated materials must be removed using procedures specified by federal, state, and local regulations.
 - 5) See Chapter F for additional requirements relating to potentially hazardous materials in existing structures.
 - c. Indoor Air Quality: Design and construct to comply with the code and the following:
 - 1) Acceptable air quality as defined by ANSI/ASHRAE 62-1999.
 - 2) Substantiation:
 - a) Design Development: Identification of methods to be used to comply with requirements; ventilation design calculations. Identification of unusual indoor contaminants or sources and methods to mitigate their effects on occupants.
 - b) Construction Documents: Specifications showing that construction materials are not contaminant sources and do not adversely affect air quality.
 - c) Commissioning: Field measured outside and supply air quantities for each space and its associated air handler.

5. Physical Security: In addition to any provisions that may be required by law or code, design and construct both exterior and interior spaces to incorporate accepted principles of crime prevention through environmental design (CPTED), using natural (as opposed to technological) methods of providing surveillance, access control, and territorial reinforcement wherever possible.
 6. Provide protective measures, such as concrete planters, bollards or berms, to mitigate the possibility of a vehicle ramming into areas of this facility from either the parking lot or road in accordance with the Department of Defense Antiterrorism/Force Protection Standards.
 7. Provide minimum protective measures such as an unobstructed view around the facility, elimination of locations of concealment, lighting that focuses away from the building, and minimum number of shadow areas.
 - a. ~~Definition of Elements at Ground Level: For purposes of physical security, any element within 25 feet of (AM#10) the ground, grade, minimum standoff distance is 25 meters (82 feet) from the building to parking or adjacent paving, roadways in accordance with the Department of Defense Antiterrorism/Force Protection Construction Standards.~~
 - b. Security Zones:
 - 1) Public Access Zone: That area to which the public has free access, including public corridors, grounds, and parking lots.
 - 2) Reception Zone: The area to which the general public has access but beyond which access is restricted at all times.
 - 3) Operations Zone: The area to which only employees and visitors with a legitimate reason to be there have access.
 - 4) Secure Zone: The area to which access is always controlled and which is monitored continuously.
 - 5) High-Security Zone: Areas indicated in project program and areas named Emergency Operations Center (EOC).
 8. Electrically-Operated Equipment and Appliances: UL listed for application or purpose to which they are put; suitable for wet locations listing for exterior use.
 9. Explosion Hazards: The following hazards will exist in the building:
 - a. External Hazards: Natural gas service and equipment.
 - b. Internal Hazards: Natural gas service and equipment.
- D. Structure:
- E. Loads: Accomodate loads as prescribe by code, ANSI/ASCE 7, and USACE TI 809-04.
1. Earthquake Loads: Accommodate loads as prescribed by ASCE 7-1998 (pub. 2000).
 2. Wind Loads: Accomodate loads as prescribed by ASCE 7-1998 (pub 2000).
 3. Dead Loads: Actual loads of contruction materials.
 4. Live Loads: Accomodate loads as prescribed by ASCE 7-1998 (pub 2000) and the building code.
- F. Durability:
1. Expected Service Life Span: Expected functional service life of the built portions of this project is 50 years.
 - a. Service life spans of individual elements that differ from the overall project life span are defined in other Chapters.
 2. Animals: Do not use materials that are attractive to or edible by animals or birds.
 3. Insects: Do not use materials that are edible by insects, unless access by insects is prevented.
- G. Operation and Maintenance:

1. Space Efficiency: Minimize floor area required while providing specified spaces and space relationships, plus circulation and services areas required for functions.
2. Energy Efficiency: Minimize energy consumption while providing function, amenity, and comfort specified.
 - a. Provide energy efficient design using procedures and values specified in ASHRAE 90.1-1999.
3. Water Consumption: Minimize water consumption.
4. Waste (Trash/Rubbish) Removal: As described in the project program.
5. Ease of Operation: Provide facility, equipment, and systems that are easily operated by personnel with a reasonable level of training for similar activities.
6. Ease of Maintenance: Minimize the amount of maintenance required.
7. Ease of Repair: Elements that do not meet the specified requirements for ease of repair may be used, provided they meet the specified requirements for ease of replacement of elements not required to have service life span equal to that specified for the project as a whole; the service life expectancy analysis and life cycle cost substantiation specified for service life are provided; and Government' acceptance is granted.
8. Allowance for Changes in Occupancy and Arrangement:
 - a. Office Spaces: Design for churn of at least 75 percent, requiring very frequent minor changes in location and workplace layout.
 - 1) Size and Layout: So that relocation of individuals and small groups can be accomplished overnight with no disruption of work and no disruption of work of neighbors and no degradation of functionality or amenity.
 - 2) Government requires that operations staff be able to make such adjustments without technical help, with only a few days ordering/delivery time for new components.
9. Ease of Replacement:
 - a. Elements Not Required to have the Expected Service Life Span Equal to that Specified for the Project as a Whole: Make provisions for replacement without undue disruption of building operation.

ELEMENTS AND PRODUCTS

- A. In addition to requirements specified in other chapters, provide products and elements that comply with the following.
- B. Elements Made Up of More Than One Product:
 1. Where an element is specified by performance criteria, use construction either proven-in-use or proven-by-mock-up, unless otherwise indicated.
 - a. Proven-In-Use: Proven to comply by having actually been built to the same or very similar design with the same materials as proposed and functioning as specified.
 - b. Proven-by-Mock-Up: Compliance reasonably predictable by having been tested in full-scale mock-up using the same materials and design as proposed and functioning as specified. Testing need not have been accomplished specifically for this project; when published listings of independent agencies include details of testing and results, citation of test by listing number is sufficient (submittal of all test details is not required).
 - c. The Contractor may choose whether to use elements proven-in-use or proven-by-mock-up, unless either option is indicated as specifically required.
 - d. Where test methods accompany performance requirements, use those test methods to test the mock-up.
 2. Where a type of product is specified, without performance criteria specifically applicable to the element, use the type of product specified.
 3. Where more than one type of product is specified, without performance criteria specifically

applicable to the element, use one of the types of products specified.

4. Where a type of product is specified, with applicable performance criteria, use either the type of product specified or another type of product that meets the performance criteria as proven-in-use or proven-by-mock-up.
5. Where more than one type of product is specified, with applicable performance criteria, use either one of the types of products specified or another type of product that meets the performance criteria as proven-in-use or proven-by-mock-up.
6. Where neither types of products nor performance criteria are specified, use products that will perform well within the specified life span of the building.

C. Products:

1. Where the properties of a product are specified by description and/or with performance criteria, use products that comply with the description and/or performance criteria.

SUBSTANTIATION

- A. Definition: Substantiation is any form of evidence that is used to predict whether the design will comply with the requirements or to verify that the construction based on the design actually does comply. During Preliminary Design, Design Development, and Construction Documents, requirements to submit substantiation are primarily intended to forestall use of designs or constructions that will not comply. At any time before completion of construction, substantiation is presumed to be only a prediction and may subsequently be invalidated by actual results.
1. Regardless of whether substantiation is specified or not, the actual construction must comply with the specified requirements and may, at the Government's discretion, be examined, inspected, or tested to determine compliance.
 2. Substantiation submittals will not be approved or accepted, except to the extent that they are part of documents required to be approved or accepted in order to proceed to the next stage of design or construction. However, approval or acceptance of substantiation will not constitute approval or acceptance of deviations from the specified requirements unless those deviations are specifically identified as such on the submittal.
- B. In addition to the requirements stated in other chapters, provide the following substantiation of compliance at each stage of the project:
1. If a substantiation requirement is specified without an indication of when it is to be submitted, submit or execute it before the end of Construction Documents.
- C. Previous Construction: Where elements proven-in-use are used to comply with performance requirements:
1. In the Proposal, identify which elements will be accomplished using proven-in-use elements.
 2. During Design Development, identify proven-in-use elements proposed for use, including building name, location, date of construction, owner contact, and description of design and materials in sufficient detail to enable reproduction in this project.
- D. Mock-Up Testing: Where elements proven-by-mock-up are used to comply with performance requirements:
1. In the Proposal, identify which elements will be accomplished using proven-by-mock-up elements.
 2. During Design Development, identify proven-by-mock-up elements proposed for use, with test report including date and location of test, name of testing agency, and description of test and mock-up.
 3. Mock-up testing need not have been performed specifically for this project, provided the mock-

up is substantially similar in design and construction to the element proposed.

E. Design Analyses (including Engineering Calculations):

1. Where a design analysis or calculation is specified without identifying a particular method, perform analysis in accordance with accepted engineering or scientific principles to show compliance with specified requirements, and submit report that includes analysis methods used and the name and qualifications of the designer.
2. Where engineering design is allowed to be completed after commencement of construction, substantiation may be in the form of shop drawings or other data.
3. Submit design analyses at the end of Design Development unless otherwise indicated.
4. Where design analysis is specified to be performed by licensed design professional, use a design professional licensed in Louisiana or licensed in a jurisdiction acceptable to the Government.

F. Products:

1. Where actual brand name products are not identified by either the Government or the Contractor, identify the products to be used.
2. During Preliminary Design or Design Development:
 - a. Where more than one product type is identified for a particular system, assembly, or element, identify exactly which type will be used.
 - b. For each product type, provide descriptive or performance specifications; early submittals may be brief specifications, but complete specifications are required prior to completion of construction documents.
 - c. For each product type, identify at least one manufacturer that will be used.
 - d. For major manufactured products that are commonly purchased by brand name, and any other products so indicated, provide manufacturer's product literature on at least one actual brand name product that meets the specifications, including performance data and sample warranty.
3. During Construction:
 - a. Identify actual brand name products used for every product, except commodity products specified by performance or description.
 - b. Where a product is specified by performance requirements with test methods, and if so specified, provide test reports showing compliance.
 - c. Provide manufacturer's product literature for each brand name product.
 - d. Provide the manufacturer's certification that the product used on the project complies with the contract documents.
4. Before End of Closeout:
 - a. Provide copies of all manufacturer warranties that extend for more than one year after completion.

END OF CHAPTER 111

CHAPTER B - SHELL

PERFORMANCE

A. Basic Function:

1. Provide permanently enclosed spaces for all functional areas shown in the project program, unless otherwise indicated. Provide a physical enclosure that keeps out weather, unwelcome people, animals, and insects without requiring specific action by occupants, while providing convenient movement of occupants between inside and outside, desirable natural light, and views from inside to outside. Provide level floor areas, comfortable ceiling heights, and essentially vertical walls.
2. The elements forming usable enclosed space and separating that space from the external environment comprise the shell and consist of:
 - a. Superstructure: All elements forming floors and roofs above grade and within basements, and the elements required for their support, insulation, fireproofing, and firestopping.
 - b. Exterior Enclosure: All essentially vertical elements forming the separation between exterior and interior conditioned space, including exterior skin, components supporting weather barriers, and jointing and interfacing components; not including the interior skin unless an integral part of the enclosure.
 - c. Roofing: All elements forming weather and thermal barriers at horizontal and sloped roofs and decks, and roof fixtures.
3. Where shell elements also function as elements defined within another element group, meet requirements of both groups.
4. In addition to the requirements of this chapter, comply with all applicable requirements of Chapter 111 - Facility Performance.

B. Amenity and Comfort:

1. Thermal Performance: Provide construction that will have thermal resistance as necessary to maintain interior comfort levels specified and in accordance with code and the following:
 - a. Energy Efficiency: As specified in Chapter 111.
 - b. Condensation: None on interior surfaces under normal interior temperature and relative humidity conditions, during 98 percent of the days in the coldest 3 months of the year.
 - c. Components That Have Surfaces Facing Both Interior and Exterior Environment: Condensation Resistance Factor (CRF) as required to meet requirement above, when tested in accordance with AAMA 1503.1-1998.
 - d. Minimum thermal performance values for individual shell elements are also specified in other chapters.
2. Air Infiltration: Maximum of 0.06 cfm per square foot of exterior surface area, measured in accordance with ASTM E 283-1991 at differential pressure of 6.24 psf.
 - a. Use supplementary air barrier if necessary to maintain performance over entire shell.
 - b. Use method of sealing joints between elements that will be effective given available construction practices.
3. Water Penetration: Design and select materials to prevent water penetration into the interior of the building, under conditions of rain driven by 50 mph wind.
4. Natural Light: Provide fenestration in shell as required to meet requirements for natural light as specified in Chapter C and in accordance with code.
5. Acoustical Performance: Design and construct the shell to limit sound transmission as follows:
 - a. Ambient Sound Level: Maintain ambient sound levels in perimeter spaces within Noise Criteria (NC) ranges specified in Chapter C - Interiors during normal hours of occupancy.
 - b. Vibration Control: Use shell elements that will not resonate at frequencies that are characteristic of ambient exterior sound sources at the project site.
 - c. Minimum performance values for individual shell elements are also specified in other

chapters.

6. Cleanliness of Exterior Surfaces: Design and select materials to:
 - a. Prevent attraction and adherence of dust and air-borne dirt and soot, and minimize appearance of settled dust and dirt.
 - b. Be washed reasonably clean by normal precipitation.
 - c. Prevent precipitation from washing settled dust and dirt over surfaces exposed to view.
 7. Appearance: Design and select materials to provide exterior appearance with characteristics as follows:
 - a. Matching the materials on the existing building.
 - b. Concealing mechanical equipment, plumbing equipment, electrical equipment, and piping, conduit, and ducts from view from the street.
- C. Health and Safety:
1. Fire Resistance: Design and select materials to provide fire resistance in accordance with code.
 - a. For all elements required to have a fire resistive rating and which are not made of materials and systems specified as acceptable by the code, use proven-by-mock-up construction.
 - b. For proven-by-mock-up construction, acceptable testing agencies are Underwriters Laboratories Inc., Underwriters' Laboratories of Canada, Inchcape Testing Services (Warnock-Hersey), and Factory Mutual
 - c. Minimum performance values for individual shell elements are also specified in other chapters.
 2. Physical Security: Design and construct to provide protection as follows:
 - a. Glazing at Ground Level, Emergency Operations Center: ~~Ballistic resistance (AM#10)~~ Glazing at existing windows shall be replaced with a minimum of Level 1 resistance, 1/4" nominal laminated glass. The 1/4" laminated glass consists of two nominal 1/8" glass panes bonded together with a minimum, in accordance with UL 752-2000 and Department of a .030 inch polyvinyl-butylal (PVB) interlayer. In addition the windows at the EOC shall be filled in with concrete masonry units as described in Chapter 22, C1b. Windows and frames must work as a system to ensure that their hazard mitigation is effective in accordance with the Department of Defense Antiterrorism/Force Protection Construction Standards. Level 1
 - b. (AM#10) Glazing at new windows, glass entrances and doors with glass panes shall be designed to minimize hazards from flying glass fragments. New windows shall be insulated glass units and as a minimum the inner pane must be 1/4" nominal laminated glass. The 1/4" laminated glass consists of two nominal 1/8" glass panes bonded together with a minimum of a .030 inch polyvinyl-butylal (PVB) interlayer. Windows and frames must work as a system to ensure that their hazard mitigation is effective in accordance with the Department of Defense Antiterrorism/Force Protection Construction Standards.
 - c. (AM#10) Glazing at existing windows shall be replaced with a minimum of 1/4" nominal laminated glass. The 1/4" laminated glass consists of two nominal 1/8" glass panes bonded together with a minimum of a .030 inch polyvinyl-butylal (PVB) interlayer. Windows and frames must work as a system to ensure that their hazard mitigation is effective in accordance with the Department of Defense Antiterrorism/Force Protection Construction Standards.
 - d. (AM#10) New and existing window frames, mullions, glass entrances and doors shall be aluminum. Frames, mullions, and window hardware shall be designed to resist a static load of 1 lb. per square inch applied to the surface of the glazing. Frame and mullion deformations shall not exceed 1/160 of the unsupported member lengths. The glazing shall have a minimum frame bite of 3/8 inch for structural glazed window systems and 1 inch for windows systems that are not structurally glazed. Frame connections to surrounding walls shall be designed to resist a combined loading consisting of a tension force of 200 lbs/in and a shear force of 75 lbs/in. Alternatively, use frames that provide an equivalent level of performance. Existing windows shall be tested for these requirements prior to reglazing with laminated glass. Windows and frames must work as a system to

- ensure that their hazard mitigation is effective and in accordance with the Department of Defense Antiterrorism/Force Protection Standards.
- e. (AM#10) New and existing air intakes to heating, ventilation, and air conditioning (HVAC) systems that are designed to move air throughout the building shall be located at least 10 feet above the ground in accordance with the Department of Defense Antiterrorism/Force Protection Standards.
 - f. (AM#10) Emergency air distribution shutoff shall be provided in the HVAC control system that can immediately shut down air distribution throughout the building. The switch (or switches) must be located to be easily accessible by building occupants. This control will allow building occupants to limit the distribution of airborne contaminants that may be introduced into the building in accordance with the Department of Defense Antiterrorism/Force Protection Standards.
 - g. (AM#10) Utility distribution and installation of critical or fragile utilities including electrical, emergency power, telephone/data and water for fire protection system shall be routed in a manner so that they are not on exterior walls or on walls shared with the mailroom in accordance with the Department of Defense Antiterrorism/Force Protection Standards. Redundant utilities shall not be collocated or run in the same chases as the primary utilities.
 - h. (AM#10) Overhead features including suspended ceiling systems and other overhead mounted architectural features and mechanical and electrical equipment bracing shall be provided for overhead utilities and fixtures including light fixtures to minimize the likelihood that they will fall and injure building occupants. Design all architectural features and equipment mountings to resist forces of 0.5 times the equipment weight in any direction and 1.5 times the equipment weight in the downward direction. This standard does not preclude the need to design equipment mountings for forces required by other criteria such as seismic standards. Equipment and overhead feature bracing shall be in accordance with the Department of Defense Antiterrorism/Force Protection Standards.
 - i. (AM#10) Exterior Brick Veneer/CMU Wall in Wing No. 3, on Floors 1-5 between Grids B33 and B35 and between Grids B35 and E35 shall be hardened and reinforced to prevent collapse of the wall and minimize hazardous flying debris for a bomb blast of 100 kilograms with a standoff distance of 67 feet. These portions of the wall on Floors 1-5 are less than the 82 foot stand off distance and will be required to be reinforced to comply with the Department of Defense Antiterrorism/Force Protection Standards.

D. Structure:

1. Structural Performance: Design and select materials to support all loads without damage due to loads, in accordance with code.
2. A registered engineer shall verify the final structural design of the entire building including the following:
 - a. All new foundations.
 - b. All new superstructures.
 - c. All modifications to the existing structure.
 - 1) Removal of columns on the top floor for the command conference room.
 - 2) Structural modifications and supports for new loads.
 - 3) Penetrations in the existing structural elements such as the floor slabs and the sheer walls.
 - d. Verification of the existing structure for new loads including but not limited to the following:
 - 1) Office live loads: design for a live load of 50 psf plus 20 psf for partition loads minimum or the current code requirement if higher.
 - 2) The new fire sprinkler system.
 - 3) Wind and seismic loads per current codes.
 - 4) Elevator loads.

E. Durability:

1. Service Life Span: Same as building service life, except as follows:

- a. Load-Bearing Structural Members: Minimum of 100 years.
 - 1) No anticipated deterioration when protected as specified.
 - 2) Protective Elements: Minimum 25 years.
 - b. Wall Primary Weather-Barrier Elements: Minimum 50 years functional and aesthetic service life, excluding joint sealers.
 - c. Transparent Elements (Glazing): Same as other wall primary weather-barrier elements, except accidental breakage is considered normal wear-and-tear.
 - d. Joint Sealers: Minimum 20 years before replacement.
 - e. Surfaces Exposed to View: Minimum 20 years aesthetic service life; in addition, deterioration includes color fading, crazing, and delamination of applied coatings.
 - f. Roof Covering Weather-Barriers: Minimum 20 years, fully functional.
2. Water Penetration: Design and select materials to prevent water penetration into the interior of shell assemblies, under conditions of rain driven by 50 mph wind.
 - a. Exception: Controlled water penetration is allowed if materials will not be damaged by presence of water or freezing and thawing, if continuous drainage paths to the exterior are provided, and water passage to the building interior is prevented.
 - b. Substantiation: In addition to requirements specified for proven-in-use and proven-by-mock-up construction, drawings showing paths of water movement, with particular attention to changes in direction or orientation and joints between different assemblies.
 3. Weather Resistance: Design and select materials to minimize deterioration due to precipitation, sunlight, ozone, normal temperature changes, salt air, and atmospheric pollutants.
 - a. Deterioration includes corrosion, shrinking, cracking, spalling, delamination, abnormal oxidation, decay and rot.
 - b. Surfaces Exposed to View: Deterioration adversely affecting aesthetic life span includes color fading, crazing, and delamination of applied coatings.
 - c. Joint Components and Penetration Seals: Capable of resisting expected thermal expansion and contraction; use overlapping joints that shed water wherever possible.
 - d. Transparent Elements (Glazing): No haze, loss of light transmission, or color change, during entire expected service life.
 - e. Freeze-Thaw Resistance: Adequate for climate of project.
 - f. Corrosion Resistance: In locations exposed to the outdoor air or in potential contact with moisture inside shell assemblies, use only corrosion-resistant metals as defined in this Chapter.
 - g. Ozone Resistance: Do not use materials that are adversely affected by ozone.

PRODUCTS

A. Corrosion-Resistant Metals:

1. Hot-dipped galvanized steel, with minimum zinc coating of 0.90 oz/sq ft total both sides.
2. Stainless steel, Type 304 or 316.
3. Cadmium-plated steel, with minimum coating of 12 micrometers.
4. Aluminum.

B. Coated Finishes:

1. Use one of the following:
 - a. Fluoropolymer coating (70 percent Kynar 500 (tm) or Hylar 5000(tm)), minimum two coats.
 - b. Siliconized polyester coating.
2. Do not use:
 - a. Baked enamel.
 - b. Paint.

C. Construct the shell using one of the following:

1. Cast-in-place concrete.
 2. Brick to match existing.
- D. Do not use:
1. Different metals subject to galvanic action in direct contact with each other.
 2. Materials and products that require field finishing on surfaces exposed to the weather.
 3. Wood trim.

METHODS OF CONSTRUCTION

- A. The following existing shell elements must be preserved:
1. Existing Superstructure, Shell and Metal Roof.
- B. The following existing shell interior elements must be removed to accomplish new construction:
1. Entire existing interior walls, doors & frames, floor materials, ceilings, finishes, mechanical, electrical and plumbing systems. The existing interior shall be removed leaving only the structural concrete shell, exterior walls, elevator shaft and stairwells.
 2. Mold, Mildew.
 3. Asbestos Containing Materials.
 4. Lead Containing Materials including lead based paint.
 5. PCB's in fluorescent light ballasts.
- C. Construct the new addition with a compatible architectural design to the existing building using materials with an appropriate image for entrance to the Fort Polk and JRTC Headquarters.
- D. Do not use:
1. Roofs with slopes less than 1/2":12".

END OF CHAPTER B

CHAPTER B22 - EXTERIOR WINDOWS AND OTHER OPENINGS

PERFORMANCE

A. Basic Function:

1. Fill, cover, close, or otherwise protect all openings in the exterior walls (other than doors) so that the entire exterior enclosure functions as specified, using windows and other opening elements as specified, without using components that must be installed at changes of season.
2. The elements comprising exterior windows and other openings include windows, fixed glazing other than glazed walls, ventilation openings, protection devices for openings, and elements that form or complete the openings, unless an integral part of another element.
3. See Chapter B21 for glazed walls and Chapter B23 for doors.
4. Where exterior window and other opening elements also must function as elements defined in another element group, meet requirements of both element groups.
 - a. Air Intake and Exhaust Openings: See also Chapter D.
5. In addition to the requirements of this chapter, comply with all applicable requirements of Chapter 111 - Facility Performance, Chapter B - Shell, and Chapter B2 - Exterior Enclosure.
 - a. (AM#10) Force Protection Requirements: See Chapter B Shell, C2b, C2c, C2d, for requirements that all exterior windows and doors shall have laminated glass to minimize hazards from flying glass fragments.

B. Amenity and Comfort:

1. Thermal Performance of Elements Forming Exterior/Interior Separation:
 - a. Maximum Thermal Transmittance of Any Individual Component: U-value of 0.50 Btu/sq ft/hr/deg F when tested in accordance with ASTM C 236-1989(R93) or ASTM C 1199-1997.
 - b. Exception to Condensation Resistance Requirement: For glazing and frames, minimum CRF of 35 when measured in accordance with AAMA 1503.1-1998.
 - c. Substantiation:
 - 1) Construction: For standard manufactured products, certification of specified properties by NFRC or other testing agency acceptable to Government; for custom-fabricated elements, test reports.
2. Air Infiltration:
 - a. Operable Openings Intended to be Normally Closed: Maximum of 0.3 cfm/sq ft, measured in accordance with ASTM E 283-1991 at differential pressure of 1.57 psf.
 - b. Mechanical Ventilation Openings: Automatically closed when ventilation is not required. Unless ducted, maximum of 0.3 cfm/sq ft of crack when closed, measured in accordance with ASTM E 283-1991 at differential pressure of 1.57 psf.
3. Appearance:
 - a. Sight Lines of Glazed Areas: Provide maximum glazing area with minimum interruption by framing members.
 - b. Frames: Design frames of openings to give a flush appearance without shadow lines.
 - c. Glazed Areas: Interior glazed.
 - d. Exposed Blade Louvers: Concealed vertical mullions.

C. Health and Safety:

1. Forced Entry Resistance:
 - a. ~~Openings At the Ground Floor: Class I in accordance with ASTM F 1233-1998, minimum, and Grade 10, minimum, in accordance with ASTM F 588-1997 and in accordance with the Department of Defense Antiterrorism/Force Protection Construction Standards at the Emergency Operations Center (EOC).~~
 - b. a. Windows openings at the Emergency Operations Center (EOC) shall be maintained. The

openings behind the windows shall be filled in with concrete masonry units for added Force Protection to prevent unauthorized entry, views and listening into the EOC. The concrete masonry units shall be painted black or other compatible color to the building to blend in with the buildings tinted windows to minimize the difference in appearance.

2. Operable Openings and Ventilation Openings: Equipped with means of keeping insects, birds, and animals out.

D. Structure:

1. Lintels: Constructed to span openings and support loads imposed by exterior wall; maximum deflection of 1/360 of span, vertically and horizontally.
2. Wind Design: No damage when tested in accordance with ASTM E 330-1997 at 1.5 times positive and negative design wind loads using 10 second duration of maximum load.
 - a. Members Not Supporting Glass: Maximum deflection of 1/360 of span.
 - b. Members Supporting Glass: Maximum deflection of flexure limit of glass; with full recovery of glazing materials.

E. Durability:

1. Air Intake and Exhaust Openings: Minimize rainwater penetration and protect adjacent interior spaces from damage from water.
 - a. Maximum Water Leakage: 0.01 oz/sf under most extreme conditions.
 - b. Test Air Velocity: For exhaust openings: 0; for intake openings: normal operational velocity.
 - c. Substantiation:
 - 1) Construction: Identify air velocity; show AMCA 511-1999 certified water penetration ratings.
2. Water Penetration: Design openings and components of openings to positively drain water to exterior of the building.
 - a. Top of Openings: If wall construction does not provide its own methods of drainage, use separate flashing to prevent water from entering opening components or the interior of the building.
 - b. Bottom of Openings: Integral or separate sill or flashing to prevent water running over or draining out of opening components from entering the wall construction below or the interior of the building.

F. Operation and Maintenance:

1. Cleanability: Design glazed openings to permit the exterior surface to be cleaned from inside or outside without removing window sash.
2. Operating Components: Remaining operable for 10 years under normal exposure conditions for the project site.
3. Mechanical Ventilation Openings: No moving parts on exterior of building or where accessible to occupants.
4. Operators for Moving Parts: Electric motor- or pneumatically-operated.

PRODUCTS

A. Windows (Operable and Fixed):

1. Match the existing ~~operable~~ (AM#10) windows on existing building. (AM#10) New windows are not required to be operable.

B. Fixed Glazing:

1. Glazing: Double pane insulated units.

C. Glazing:

1. Use the following as appropriate:
 - ~~a. Heat strengthened glass.~~
 - ~~b.a. Fully tempered (AM#10) Clear glass.~~
 - ~~c.b. Tinted glass.~~
 - ~~d.c. Low E glass.~~
 - ~~e. Heat absorbing glass.~~
 - f.d. (AM#10) Laminated glass at FOD, Command Suite and Command Conference Room, all exterior windows, glazed entrances, doors with glass panes to comply with Department of Defense Antiterrorism Force Protection Standards.
2. Do not use:
 - a. Spandrel glass.
 - b. Patterned glass.
 - c. Ceramic glass.
 - d. Polycarbonate sheet.
 - e. Acrylic sheet.

D. Other Exterior Opening Elements: All components required to complete the opening.

E. Lintels:

1. Use one of the following:
 - a. Cast-in-place concrete.
 - b. Unit masonry.
 - c. Steel.

F. Concealed Flashings:

1. Use one of the following:
 - a. Aluminum flashing at storefront.
 - b. Galvanized steel flashing at painted steel elements.
 - c. Copper flashing at masonry walls.

G. Joint Sealers: As specified in Chapter B21.

METHODS OF CONSTRUCTION

A. The following existing exterior window and other opening elements must be preserved:

1. Exterior windows in existing building. (AM#10) All exterior glazing shall be replaced with laminated glass as described in Chapter B.

END OF CHAPTER B22

CHAPTER D3 - HVAC - HEATING, VENTILATING, AND AIR CONDITIONING

PERFORMANCE

A. Basic Function:

1. Provide artificial means of controlling temperature, relative humidity, velocity, and direction of air motion in the interior spaces enclosed by the shell, and reduction of airborne odors, particulates, and contaminant gases. Contractor to refer to three types of systems studied in the life cycle cost analysis referenced in volume 4. Responsibility of the contractor to design system appropriate for the building with initial cost, life cycle cost, functionality and ease of maintenance in consideration.
2. The HVAC system consists of the following elements:
 - a. Energy Supply: Elements which provide energy used to maintain building comfort.
 - b. Heat Generation: Electrical elements required to heat building to maintain space comfort.
 - c. Refrigeration: Elements necessary to generate the cooling required to maintain building comfort.
 - d. Air Distribution: Elements required to distribute air to maintain building comfort.
 - e. Hydronic Distribution: Elements required to distribute chilled water to maintain building comfort.
 - f. HVAC Controls: Elements required to control equipment which maintains building comfort.
 - g. Other HVAC Elements: Other elements required to maintain building comfort.
3. Where HVAC elements also must function as elements defined within another element group, meet the requirements of both element groups.
4. In addition to the requirements of this chapter, comply with all applicable requirements of Chapter 111 - Facility Performance and Chapter D - Services.

B. Amenity and Comfort:

1. Space Temperature Setpoint: As specified in Chapter 111 and as follows:
 - a. (AM#8) or Computer Intensive Environments: 72 deg F, plus or minus 1 deg F.
 - b. Uninterruptible Power Supply Room: 72 deg F, plus or minus 2 deg F.
2. Relative Humidity Range: As specified in Chapter 111 and as follows:
 - a. Computer Room: 30 to 60 percent.
3. Substantiation:
 - a. Closeout: Measurement of temperature and humidity in each occupied space.
 - 1) One measurement in the summer (outdoor air temperature above 95 deg F) and one measurement in the winter (outdoor air temperature below 40 deg F), within first year of occupancy.

C. Health and Safety:

1. Emergency Power: Provide emergency power in accordance with code plus the following equipment:
 - a. Air handler Emergency Operations Center (EOC).
 - b. Chillers.
 - c. Electric heaters for outside air and terminal boxes for Emergency Operations Center (EOC).
2. Electrical Shock Prevention:
 - a. Provide a means of disconnecting power at each piece of equipment.
3. Refrigerants:
 - a. Comply with the requirements of ASHRAE 15-1994.
 - b. Prevent release of refrigerant to atmosphere.
 - c. Prevent exposure of occupants to hazardous refrigerants.

4. Indoor Air Quality: Provide sufficient ventilation to obtain acceptable indoor quality, determined using the Ventilation Rate Procedure of ANSI/ASHRAE 62-1999 .
5. (AM#10) Air Intakes: New and existing air intakes to heating, ventilation and airconditioning (HVAC) systems that are designed to move air throughout the building shall be located at least 10 feet above the ground. Refer to requirements in Chapter B, C2e.
6. (AM#10) Emergency Air Distribution Shutoff shall be provided in the HVAC control system that can immediately shut down air distribution throughout the building. The switch (or switches) must be located to be easily accessible by building occupants. Refer to requirements in Chapter B, C2f.
7. (AM#10) Utility Distribution and installation of critical or fragile utilities including electrical, emergency power, telephone/data and water for fire protection system shall be routed in a manner so that they are not on exterior walls or on walls shared with the mailroom. Refer to requirements in Chapter B, C2g.
8. (AM#10) Overhead features and mechanical equipments shall be braced and supported to minimize the likelihood that they will fall and injure building occupants resulting from natural or force induced disasters. Refer to requirements in Chapter B, C2h.

D. Operation and Maintenance:

1. Design Criteria:
 - a. Entering Chilled Water Temperature: 45 degrees F.
 - b. Leaving Chilled Water Temperature: 57 deg F.
 - c. Cooling Leaving Air Temperature: 55 degrees F.
 - d. Heating Leaving Air Temperature: 95 degrees F.
2. HVAC Reliability:
 - a. Chillers: Provide multiple chillers to deliver design load capacity.
 - 1) For 2 Chillers: Size each at 60 percent of design load capacity.
 - b. Pumps: Provide multiple pumps to deliver design flow requirements.
 - 1) For 2 Pumps: Size each at 100 percent of design flow.
 - 2) Provide a stand-by pump for each chiller pump.
 - c. Substantiation:
 - 1) Construction: Functional performance testing.
 - 2) Occupancy:
 - a) If equipment is damaged or malfunctions within one year after completion, reporting of the cause of equipment damage or malfunctions.
 - b) Corrective Action: Provide corrective measures necessary to eliminate equipment damage and malfunctions.
 - c) Corrective Action Report: Identification of corrective measures implemented to protect HVAC equipment. Verify that HVAC equipment is operating properly and without damage.

PRODUCTS

A. HVAC System Type:

1. Use one or more of the following:
 - a. Central HVAC Systems:
 - 1) Central chilled water system with fan coil units, air handlers, and electric heating for outside air and terminal box reheat.
 - 2) Chilled water supplied by an air-cooled chiller.
 - 3) Variable volume air handlers with air terminals.
2. Do not use:
 - a. Stand-Alone HVAC Systems:
 - 1) Forced-draft, natural gas furnace with split-system cooling.

- 2) Forced-draft, natural gas furnace with split-system heat pump.
 - 3) Packaged terminal air-conditioning units or heat pumps.
 - 4) Air-cooled, self-contained air handlers.
 - 5) Rooftop unit.
 - 6) Variable air volume, self-contained, air-conditioning unit.
- b. Central HVAC Systems:
- 1) Hot water heating system.
 - 2) Steam heating system.
 - 3) Chilled water cooling system supplied by a water-cooled chiller.
 - 4) Central condenser water loop with water-cooled, variable air volume, self-contained, air conditioning units or water source heat pumps.

END OF CHAPTER D3

CHAPTER D5 - ELECTRICAL POWER

PERFORMANCE

A. Basic Function:

1. Provide electrical power with the appropriate characteristics to operate all electrically operated devices, including those in other services.
2. The electrical system comprises the following elements:
 - a. Electrical Energy Generation: Utility power sources, engine-generator systems, battery power systems, uninterruptible power supply systems and unit power conditioners.
 - b. Service and Distribution: Service entrance equipment, distribution equipment, transformers, motor control equipment, service and feeder wiring (conductors and raceways), monitoring, safety and control equipment, and other elements required for a complete functional system.
 - c. Reference Chapter G3 - Site Services for service to the building.
 - d. Branch Circuits: Branch circuit wiring and receptacles and other branch circuit wiring systems.
3. Where electrical power elements also must function as elements defined within another element group, meet the requirements of both element groups.
4. In addition to the requirements of this chapter, comply with all applicable requirements of Chapter 111 - Facility Performance and Chapter D - Services.
5. Substantiation:
 - a. Construction: Continuity test of wiring systems prior to functional performance test. Functional performance test of wiring systems.
 - b. Testing: Meggar test secondary wiring systems.

B. Amenity and Comfort:

1. Convenience:
 - a. Locate metering and monitoring facilities in a single location not in a mechanical equipment room.
 - b. Provide means of reading power meters and demand meters from inside the building.
 - c. Provide means of recording power meter and demand meter readings continuously in hard copy printout.
 - d. Provide an interface between the electrical monitoring and the building automation system including the following:
 - 1) Switchboard Monitoring:
 - a) Power Analysis Values:
 - (1) Output voltage of each phase; Phase-to-phase and phase-to-neutral.
 - (2) Output current; each phase and ground.
 - (3) Real power; per phase.
 - (4) Reactive power; per phase.
 - (5) Apparent power; per phase.
 - (6) Power factor; per phase.
 - (7) Frequency.
 - 2) Energy Readings of:
 - a) Real accumulated energy.
 - 3) Real-Time Readings of:
 - a) Crest factor; per phase.
 - b) Demand, per phase; instantaneous.
 - c) Displacement Power factor, per phase.
 - d) Fundamental voltages; per phase.
 - e) Fundamental real power; per phase.
 - f) Harmonic power.
 - g) Unbalance; current and voltage.

- h) Phase rotation.
- 4) Demand Readings:
 - a) Demand current; per phase and peak.
 - b) Average power factor; 3-phase total.
 - c) Demand real power; 3-phase total.
 - d) Demand apparent power; 3-phase total.
 - e) Demand reactive power; 3-phase total.
 - f) Predicted Demands.

C. Health and Safety:

1. Electrical Hazards: Design in accordance with all NFPA standards that apply to the occupancy, application, and design.
 - a. Control access to spaces housing electrical components and allow access only by qualified personnel.
2. Emergency Systems: Provide standby power when normal power is interrupted, for the following:
 - a. Systems and areas as required by code.
 - b. Elevator system. See Chapter D11 for requirements.
 - c. Air handlers. See Chapter D3 for requirements.
 - d. Computers. See Chapter D51 for requirements.
 - e. Interior Lighting. See Chapter D61 for requirements.
3. (AM#10) Overhead features including electrical equipment shall be braced and supported to minimize the likelihood that they will fall and injure building occupants resulting from natural or force induced incidents. Refer to Chapter B, C2h for requirements for overhead mounted features.

D. Durability:

1. Enclosures: As required to protect equipment from environment in which it is installed, complying with NEMA 250-1997 and:
 - a. Exterior, Exposed to Weather and Wind: Type 3S.
 - b. Exterior, Other Locations: Type 3R.
 - c. Interior, Other Locations: Type 1.

E. Operation and Maintenance:

1. Capacity: Calculated in accordance with NFPA 70-1999.
2. Power Consumption and Efficiency:
 - a. Comply with requirements of IEEE Standard 739-1995.
 - b. Comply with requirements of ASHRAE 90.1-1999.
3. Load Characteristics:
 - a. Maximum Harmonic Current Distortion: Plus or minus 2 percent of design current.
 - b. Transient Suppression: Limit voltage transients below damage curve of the electrical system and connected equipment.
4. Protection Against Disturbances:
 - a. Provide circuits which serve sensitive electronic equipment with electrical characteristics within the ranges defined in IEEE Standard 1100-1999 and as follows.
 - 1) Transient Limit: 200 volts.
 - 2) Swells and Sags: Voltage fluctuation limit of plus or minus 5 percent.
 - 3) Overvoltage and Undervoltage: Voltage fluctuation limit of plus or minus 5 percent.
 - 4) Conducted RFI/EMI Limit: 0.3 volts.
 - 5) Radiated RFI/EMI Limit:
 - a) Less than 200 kHz: 10 kV per m.
 - b) Greater than 200 kHz: 0.5 kV per m.

- 6) Voltage Distortion Limit: 3 percent.
 - 7) Phase Imbalance Limit: 1 percent.
 - 8) Substantiation:
 - a) Preliminary Design: Identification of design strategies to minimize electrical disturbances.
 - b) Design Documents: Identification of circuits which require power conditioning equipment.
 - c) Construction: Functional performance testing.
 - d) Occupancy:
 - (1) If equipment is damaged or malfunctions within one year after completion, reporting of the cause of equipment damage or malfunctions.
 - (2) Corrective Action: Provide corrective measures necessary to eliminate electrical disturbances which caused equipment damage and malfunctions.
 - (3) Retest Report: Identification of electrical characteristics after corrective equipment has been installed and all equipment is operating properly and without damage.
 - b. Noise Protection: Limit frequency excursions between 90 to 110 percent of design frequency.
 - 1) Protect the circuits as (AM#8) required.
 - a) Receptacles serving personal computer terminals.
 - b) Receptacles serving network servers.
 - c) Power supply to fire alarm panel.
 - d) Power supply to telephone system.
 - 2) Substantiation:
 - a) Preliminary Design: Identification of circuits that require noise protection.
 - b) Design Development: Description of noise protection devices to be used.
 - c) Construction: Measurement of frequency excursions on protected circuits.
 - c. Surge Protection: Voltage excursion limit of 2 times design voltage.
 - 1) Provide protection of the following:
 - a) Receptacles serving personal computer terminals.
 - b) Receptacles serving network servers.
 - c) Power supply to fire alarm panel.
 - d) Power supply to telephone system.
 - e) Entire building service.
 - 2) Substantiation:
 - a) Preliminary Design: Identification of circuits that require surge protection.
 - b) Design Development: Description of surge protection devices to be used.
 - c) Construction: Measurement of voltage excursions on protected circuits.
5. General Receptacle System Voltage: 120 volts/3-phase/60 Hz.
- a. Provide 208 volt/1t/1-phase/60 Hz receptacles where required:
 - b. Equipment Voltage: Provide 480 volt/3-phase/60 Hz electrical power to the following equipment:
 - 1) Air handler fans.
 - 2) Chillers.
 - 3) Chilled water pumps.
 - 4) Heating water pumps.
 - 5) Cooling tower fans.
 - 6) Voltage Regulation: Within 5 percent of design voltage at all branch receptacles.
6. Ease of Use:
- a. Configuration: Design wiring and protective devices so that outages caused by local overloads do not affect unrelated areas or systems.
 - b. Main Switchboard: Provide main switchboard in main electrical equipment room.
 - c. Branch-Circuit Panelboards:
 - 1) Provide a dedicated panelboard for each floor, lighting which is separate from panelboards serving equipment, and sensitive electronic equipment.

- d. Motor Control: Provide motor control centers for each group of 5 motors. Provide motors with the appropriate protective, control, and indicating devices.
 - e. Locate monitoring read-out at one central location.
 - f. Monitoring: Provide remote monitoring of the following:
 - 1) Switchboard Monitoring:
 - a) Power Analysis Values:
 - (1) Output voltage of each phase; phase-to-phase and phase-to-neutral.
 - (2) Reactive power; per phase.
 - (3) Apparent power; per phase.
 - (4) Power factor; per phase.
 - b) Energy Readings of:
 - (1) Real accumulated energy.
 - c) Real-Time Readings of:
 - (1) Crest factor; per phase.
 - (2) Demand, per phase; instantaneous.
 - d) Demand Readings:
 - (1) Demand current; per phase and peak.
 - (2) Average power factor; 3-phase total.
 - 2) Locate monitoring read-out at one central location.
7. Availability: Provide an electrical system which is available to deliver power at least 99 percent of the time.
8. Reliability Indexes:
- a. System Interruption Frequency: Calculated in accordance with IEEE 493-1997.
 - b. System Expected Interruption Duration: Calculated in accordance with IEEE 493-1997.
 - c. Substantiation:
 - 1) Design Development: Reliability evaluation calculated using the "minimal cut-set method" described by IEEE 493-1997.
9. Allowance for Change and Expansion:
- a. Spare Capacity - System Wide:
 - 1) Load: 10 percent, minimum.
 - 2) Rated Capacity: 20 percent, minimum.
 - 3) Number of Additional Circuits: 10 percent, minimum.
10. Operating Expense: Minimize operating expenses by providing peak-shaving capability, if cost effective.
- a. Evaluation of Cost Effectiveness: Simple payback is less than 5 years.

METHODS OF CONSTRUCTION

- A. The following existing electrical elements must be preserved:
 - 1. Examine existing emergency generator to confirm condition for potential re-use.
- B. The following existing electrical elements must be removed to accomplish new construction:
 - 1. Remove all electrical equipment within the building.

END OF CHAPTER D5

CHAPTER D6 - ARTIFICIAL LIGHTING

PERFORMANCE

A. Basic Function:

1. Provide artificial means of lighting interior and exterior spaces.
2. Artificial lighting comprises the following elements:
 - a. Interior Lighting: General room lighting, emergency lighting, and accent lighting.
 - b. Exterior Area Lighting: General lighting of exterior spaces including driveways, walkways, parking areas, and loading dock.
 - c. Other Artificial Lighting Elements including security lighting around the building.
3. Design lighting in accordance with recommendations of the following: The Illuminating Engineering Society (IES)
4. Where artificial lighting elements also must function as elements defined within another element group, meet the requirements of both element groups.
5. In addition to the requirements of this chapter, comply with all applicable requirements of Chapter 111 - Facility Performance and Chapter D - Services.

B. Amenity and Comfort:

1. Light Levels: Provide maintained ambient illuminance values for various activities that are within the ranges specified in the IESNA Lighting Handbook-2000
2. Light Quality: Provide luminous environment in each space that is designed to complement the functions and the character of the space.
 - a. Distribution: In keeping with geometry of space and location of visual tasks.
 - b. Visual Comfort: Provide lighting systems with the following characteristics:
 - 1) VCP: Visual Comfort Probability (VCP) of not less than 70.
 - 2) Luminance Ratio: Maximum luminance of luminaire does not exceed average luminance by ratio of more than 5:1 at 45, 55, 65, 75, and 85 degrees from nadir for crosswise and lengthwise viewing.
 - 3) Maximum luminances of luminaires crosswise and lengthwise do not exceed the following values:
 - a) 45 degrees above nadir: 7710 cd/sq m.
 - b) 55 degrees above nadir: 5500 cd/sq m.
 - c) 65 degrees above nadir: 3860 cd/sq m.
 - d) 75 degrees above nadir: 2570 cd/sq m.
 - e) 85 degrees above nadir: 1695 cd/sq m.
 - c. Color of Light: Appropriate for functions accommodated in space and characteristics of interior finishes.
 - d. Character of Fixtures: Coordinated with architecture and other building systems and appropriate to finish level.

C. Health and Safety:

1. Electrical Hazards: Design in accordance with all NFPA standards that apply to the occupancy, application, and design.
2. Emergency Systems: Provide backup lighting for periods of normal power interruption, for the following:
 - a. Systems and areas as required by code.
 - b. The Command Suite and the Emergency Operations Center.
3. (AM#10) Overhead features including lighting fixtures shall be braced and supported to minimize the likelihood that they will fall and injure building occupants resulting from natural or force incidents. Refer to Chapter B, C2h for requirements for overhead mounted features.

D. Durability:

1. Moisture Resistance: Regardless of whether exposure to moisture is likely or not, design lighting equipment to be resistant to moisture.

E. Operation and Maintenance:

1. Capacity: Design lighting to deliver required illumination while operating within intended ratings.
2. Power Consumption and Efficiency:
 - a. Comply with requirements for energy efficiency of lighting in ASHRAE 90.1-1999.
3. Allowance for Change and Expansion:
 - a. Spare Capacity: 10 percent, minimum.

END OF CHAPTER D6

CHAPTER D71 - VOICE AND DATA

PERFORMANCE

A. Basic Function:

1. (AM#8) Provide means of conveying voice communication between rooms in the building and telecommunication closets, between telecommunication closets and the main communication room, and between the main communication room in the building and the Government Telephone system. The telephone system that will be utilized is a Single Line System. The contractor will be responsible for installing outlets and communication rooms as follows. Government will provide communications equipment and telephone equipment..
 - a. All administrative outlets shall be dual 8-position type connectors with two 8-pin, 8-position modular (RJ45 type EIA/TIA 568B) connectors. The connection back to the communication room will be Category 5e 8-wire, 4-pair copper cable. The connections in the communication room will be on 8-pin, 8-position modular jacks (RJ45 type EIA/TIA 568B) in rack mounted patch panels installed in floor mounted open 19"Wx80"H racks. The dual outlets are considered Universal Drops - that is, an outlet can have 1 data and 1 voice, 2 data or 2 voice depending on what the government connects to the drop in the communication room. Between the main communication room and each telecommunication closet the cable that will be installed will be a minimum of 2 pair of Category 5e copper cable available for each voice outlet. The existing 600 pair cable that feeds the building will be terminated by the Contractor in the new Main Communication Room in protected entrance terminals.
2. Provide means of conveying data between computers within the building, between buildings in the campus, and between the data transmission network and the Government's Internet service provider as specified in the program and as follows.
 - a. Government's operational computer network is PC- based.
 - b. Connection between Internet and internal network will be via (AM#8) Post Network.
 - 1) (AM#8) All administrative outlets shall be dual 8-position type connectors with two 8-pin, 8-position modular (RJ45 type EIA/TIA 568B) connectors. The connection back to the communication room will be Category 5e 8-wire, 4-pair copper cable. The connections in the communication room will be on 8 pin, 8-position modular jacks (RJ45 type EIA/TIA 568B) in rack mounted patch panels installed in floor mounted open 19"Wx80"H racks. The dual outlets are considered Universal Drops - that is, an outlet can have 1 data and 1 voice, 2 data or 2 voice or 2 voice, depending on what the government connects to the drop in the communication room. There will be a minimum of 1 dual outlet per every 50 square foot of technical space and a minimum of 1 dual outlet per every 80 square foot of Administrative and other space.
 - 2) Connect all telephone/data outlets from the telephone terminal backboard and/or communications equipment room with two 4-pair, EIA/TIA 568A Category 5e, unshielded twisted pair(UTP) solid copper station cable.
 - 3) ~~connect~~ Connect all single 8-position type wall and pay telephone outlets from the telephone terminal backboard and/or wiring closet with one 4-pair, EIA/TIA 568A Category 5e, UTP solid copper station wire.
 - 4) Install a nylon pull cord in all entrance conduits and in all conduits between communication closets and station outlets.
 - 5) Provide a 120 volt, 20 amp duplex AC outlet on a dedicated circuit breaker, on the telephone terminal backboard in communication rooms.
 - 6) Provide a #6 AWG ground wire at the telephone terminal backboards and connect it to the building's master ground.
 - 7) (AM#8) A minimum of two dual outlets shall be installed in all administration areas. Each dual outlet shall have two 8-pin, 8-position modular (RJ45 type) connectors and dedicated space for two additional RJ45 type connectors for future use. The additional space will be covered with blanks. Special outlets (Fax, Network Printers, Counter Top, etc.) will be configured as dual outlets and placed along the walls as required. RJ45 type connectors shall be wired to conform to EIA/TIA 568B.

- 8) The installation of all cable shall meet the physical and electrical requirements of EIA/TIA 568A and 569 standards. Horizontal cabling from the communications equipment room (CER) to all combination outlets shall be category five (CAT5e), 4-pair, 24 American Wire Gauge (AWG), 100 ohm, solid, unshielded twisted pair (UTD) cable. All voice and data cables shall not exceed (AM#8) 310 ft. and will be continuous without splices from CER termination to outlet termination. Cabling shall be neatly bundled, properly tagged and labeled.
- 9) Size electrical metallic tubing (EMT) conduit and outlet boxes as required by cabling to be installed, providing dedicated space for future fiber optic cabling. Minimum size for EMT conduit shall be 1 inch.
- 10) Communication Equipment Rooms (AM#8) - CER (Telecommunication Closets - TC and Main Communication Room - MCR). The CER will not be shared with other functions i.e. Electrical, Mechanical rooms, etc. There will be a minimum of 1 TC per floor. All TC's will connect back to a MCR on the first floor. The TC and MCR on the first floor may be combined provided adequate space is available. The contractor will provide at a minimum 1 -19"Wx80"H communications equipment rack per TC and MCR or more as needed to house equipment, premise wiring copper termination panels and fiber housing units. Also, provide a 4'x8'x3/4" plywood backboard per TC & MCR for telephone punch down blocks. Provide at least one wall mounted telephone outlet, a minimum of two dedicated 15 amp, 110 volt AC outlets per rack and one per backboard, and a No. 6 copper ground wire in conduit to building ground. Ensure 3'-6" clear workspace in front of the equipment racks. Show location of communications equipment racks and backboards on the floor plans and on other drawings as necessary for clarity. Copper horizontal distribution cabling shall be terminated on rack mounted 8-pin modular (RJ45 EIA/TIA 568B 110 type) patch panels for all universal drops. All Fiber Optic cabling shall be terminated with ST Type connection patch panels. ST type connectors shall have ceramic ferrules and have attenuation loss not to exceed 0.25 dB.
- 11) (AM#8) The existing 24 Strand Single Mode Fiber Optic cable will be pulled into the building and new MCR from existing manhole (if fiber optic cable will not reach new MCR it will be extended with fusion splicing) and terminated in rack mounted fiber optic housing with ST type connectors. Between the MCR and each TC the Contractor will install a 12 Strand Single Mode Fiber Optic Cable for data transmission. All fiber optics will be terminated with ST connectors and installed in rack mounted houses and tested, with all test results being provided to the government.
- 12) (AM#10) SIPRNET
 - a) Bldg. 350 will contain a hardened conduit system for transmission of Classified Information up to the SECRET Level. This conduit system is a critical utility and shall comply with the requirements of Chapter B, C2g. The system will run from the Main Communication Room (MCR) on the first floor to each required location. The carrier must be exposed below ceiling for inspection at all times. It may run between floors to conserve distance and cosmetic issues. This will not be a separate carrier per drop. Such as, if a wing has 5 drops, the carrier will start out large enough to contain the wire plus allow for expansion and then star off for each drop. There will only be 1 carrier run down a hall or thru a room.
 - b) The following applies:
 - (1) a) The carrier should be constructed of electrical metallic tubing (EMT), ferrous conduit or pipe, or rigid-sheet ducting, utilizing elbows, couplings, nipples, and connectors of the same material.
 - (2) All connections should be permanently sealed completely around all surfaces (e.g., welding (continuous or tack, compression, epoxy, fusion, etc.)). Pull boxes will be placed at strategic locations for ease of cable pulling. Pull box covers will be sealed to the pull boxes around the mating surfaces after installation or the pull box covers must not have removable hinge pins and must have a GSA approved changeable combination

- padlock. Boxes with pre-punched knockouts may not be used.
- (3) The carrier must be clearly marked every 4 ft. with red markings (paint, tape, etc.).
 - (4) Boxes at drop location must be sized to house termination boxes. Typical size could be 6" wide x 6" tall x 4" deep. These drop boxes must meet the requirements of (b) above but must have a locking mechanism in order to access the LAN jacks.
 - (5) Wire and jacks will meet Category 5e standards. Wire will be shielded Category 5e. There will be one 4-pair 8-wire Category 5e drop per SIPRNET location.
 - (6) Wiring panels and equipment must be housed in a GSA approved SAFE in the MCR. The SAFE must be separated from all other equipment by a minimum of 3 feet.
 - (7) Contractor will supply all carrier, cable and SAFE and install to specifications. Government will furnish all equipment for operation of the SIPRNET.
 - (8) Drop location: 1 drop per location (15 total)
 - (a) 1st Floor - DOIM Section - Directors Office
 - (b) - G3 Section - Colonel Office
 - (c) - EOC Section - Vault
 - (d) - EOC Section - Comp Lab
 - (e) - EOC Section - CIC
 - (f) 2nd Floor - DOL Section - Directors Office
 - (g) - DPW Section - Directors Office
 - (h) - DOC Section - Directors Office
 - (i) 3rd Floor - None
 - (j) 4th Floor - DRM - Directors Office
 - (k) - G1 Section - Colonel Office
 - (l) - CSM Section - CSM Office
 - (m) 5th Floor - GC Section - Garrison Commander Office
 - (n) - GC Section - GCSM Office
 - (o) - Command Section - Command General Office
 - (p) - Command Section - Deputy Commander Office
- c. Connection between campus central server and internal network is part of the data network.
- d. Operational network outlets are required in the following spaces:
- 1) Server Room, number as indicated in project program.
 - 2) Each interior room, minimum of one.
 - 3) Each reception desk.
 - 4) Each other location indicated as "computer outlet" on project program.
- e. Furnished by Government:
- 1) Government's operational computer network hardware and software.
 - 2) Non-modem connection to Internet, including interface hardware.
3. Integrated systems performing all functions are preferred, subject to requirements of code for separated, independent systems.
4. ~~Where voice and data elements also~~ Voice and data elements must function as elements defined within another element group, meet the requirements of both element groups.
5. In addition to the requirements of this chapter, comply with all applicable requirements of Chapter 111 - Facility Performance, Chapter D - Services, and Chapter D7 - Telecommunications.
6. Substantiation:
- a. Preliminary Design: Outline description of systems, inter-system interfaces, and functions provided.
 - b. Design Development: Details of each type of input and output device; capacities of

- systems; manufacturer data.
 - c. Construction Documents: Detailed layout of input and output device locations.
 - d. Closeout: Complete functional performance testing as specified in Chapter 00830, under Commissioning.
- B. Amenity and Comfort:
- 1. Accessibility: Comply with requirements of federal authorities for facilities for the disabled.
- C. Durability:
- 1. Moisture Resistance and Thermal Compatibility: Materials that will resist degradation and failure of signals under ambient conditions expected.
- D. Operation and Maintenance:
- 1. Power Supplies: As specified in Chapter D51.
 - a. Building power with power line conditioner for all systems.
 - 2. Transmission Capacity:
 - a. Sound Communication Cabling: 10 megabits per second; RJ45 connectors.
 - b. Data Communication Cabling: 10 megabits per second; RJ45 connectors.
 - c. Substantiation:
 - 1) Closeout: Continuity and performance testing.
 - 3. Ease of Maintenance: Provide communications networks that are logically arranged and well-marked, using terminal panels that provide:
 - a. Connections between each voice station and hub in server room.
 - b. Point-to-point connections between each data input and output point and hub location in server room.
 - 4. Government Personnel Training: As specified in Chapter 00830.
 - a. Operational: Minimum of 8 hours, for 4 persons, for each separate system.
 - b. Maintenance: Minimum of 8 hours, for 4 persons, for each separate system.

PRODUCTS

- A. Control Systems for All Applications:
- 1. Use one of the following:
 - a. Microprocessor-based hardware.
- B. Communication Cabling:
- 1. Use one of the following:
 - a. Copper cable.
 - b. Fiberoptic cable.
 - c. Wiring troughs.

END OF CHAPTER D71

CHAPTER G - SITEWORK

PERFORMANCE

A. Basic Function:

1. Provide all modifications to the site and site improvements and utilities required for proper functioning of the project and as indicated in the project program.
2. Sitework comprises the following elements:
 - a. Site Preparation: All modifications to the site and grades required for construction of new work and for proper functioning of the project. Confirm that access to the building meets the requirements in MIL 4270.1M, Construction Handbook.
 - b. Site Improvements: All elements required to provide finished and durable site surfaces, indoor plantings, and outdoor improvements described in the project program.
 - c. Site Services: All outdoor and underground elements required to complete the design of services defined in Volume D - Services.
 - d. Confirm existing sanitary sewer system is adequate and meets the following requirements:
 - 1) Manholes provided at the ends of laterals and at each change in direction or slope.
 - 2) Distance between manholes do not exceed 400 feet.
 - 3) Sewer pipe is sufficient to provide a velocity of at least 2 fps when the pipe is running full and 1.6 fps at average rate of flow.
 - 4) Double clean out is provided within 5 feet of the building.
 - e. Other Site Construction: Miscellaneous site elements.
3. See Chapter 00830 for site elements to be removed by others prior to start of construction.
4. Where site elements also must function as elements defined within another element group, meet the requirements of both element groups.
5. In addition to the requirements of this chapter, comply with all applicable requirements of Chapter 111 - Facility Performance.

B. Health and Safety:

1. Safety:
 - a. Inhibit:
 - 1) The intentional passage of people across controlled access highways, except at intended roadway crossings.
 - 2) The intentional driving of vehicles from adjacent public rights-of-way onto the site, except at intended roadway accesses.
 - 3) The building and site shall comply with the Department of Defense Antiterrorism/Force Protection Construction Standards. References FM 19-30 Physical Security; TM5-853-1,2,3-Security Engineering Manuals. (AM#10) The minimum standoff distance from the building to parking or roadways is 25 meters (82 feet).
 - b. Prevent:
 - 1) (AM#10) The passage of people and dogs from trucks into the site onto minimum 25 meter (82 feet) standoff distance at the public right-of-way, service drive to the loading dock by installing a vertical pivot, steel pipe, security gate with cable reinforcement designed to prevent trucks from penetrating the minimum standoff area. The security gate shall be equivalent to Delta Model TT212E, cable-reinforced crash beam barrier system. The security gate shall be equipped with CCTV camera and speaker connection monitored and remotely operated by the Field Officer of the Day.
 - 2) The accidental crossing of vehicles between driving lanes moving in opposite directions, except for roadways on which the intended speed limit is less than 40 mph.
 - 3) Access by unauthorized persons to outdoor areas containing electrical equipment that has exposed powered components.
 - 4) (AM#10) Access to outdoor site areas by trash service vehicles by placing trash dumpsters outside of the minimum 25 meter (82 feet) standoff area.
 - c. Substantiation:

- 1) Construction Documents: Identification of barrier location and type.
2. Maximum Slopes:
 - a. Slopes with Smooth Pavement: 1:10, unless restricted to vehicular use.
 - b. Slopes Covered with Grass: 1:5, unless less than 3 feet in height.
 - c. Slopes with Pedestrian-Inhibiting Vegetation: 1:1, unless less than 5 feet in height.
 - d. ~~Slopes With No Access From Top: Limited only by structural stability and resistance to erosion.~~
3. Fire Sources: Design to minimize the danger of wildfires spreading to the site, by complying with NFPA 299-1997.
 - a. Substantiation:
 - 1) Design Development: Identification of measures taken; review by authorities having jurisdiction.
4. Minimum Fire Flow Distribution:
 - a. Existing fire hydrant branches shall be checked to assure the maximum run of pipe is less than 300 feet for each fire hydrant for 6-inch diameter pipe.
 - b. Confirm that the existing building and parking areas can be reached by a maximum of 300 feet of fire hose.
 - c. A minimum of 2 fire hydrants shall be provided near the facility.
 - d. The fire water pipe shall be checked to confirm that the minimum fire flow pipe is 8 inches in diameter for dead end runs. If the facility is protected by a 6 inch diameter pipe, a loop distributions system shall be provided.
 - 1) Vermin/Animal Control:
 - a) Prevent and eliminate standing water that could become stagnant.
 - 2) Physical Security:
 - a) Prevent passage of people and dogs between:
 - (1) The site and adjacent properties.
 - (2) The site and adjacent public rights-of-way.
 - b) Substantiation:
 - (1) Construction Documents: Identification of physical security measures and locations.
 - 3) Vehicular Safety: Comply with the code.
 - a) Provide visual barriers at extreme changes in elevation near roadways.
 - b) Provide tactile warnings where pedestrian walkways cross or run adjacent to roadways.
- C. Structure:
 1. Earthwork: Provide structural design in accordance with ANSI/ASCE 7-1998 (pub. 2000) if not otherwise required by code.
 - a. Soil borings shall be taken at the site for new building additions. A Professional Engineer licensed as a Soils Engineer shall test the existing soils from the borings and provide the design for new pavement structures for this project. The Contractor shall use the design as recommended by the Soils Engineer.
 - b. Bearing Capacity: Under substructure, paving, and site structural elements, maintain natural bearing capacity or achieve or correct compaction as required to prevent uncontrolled subsidence or other movement.
 - c. Substantiation:
 - 1) Design Development: Engineering design of any structural fills required.
 2. Site Fixtures, Equipment, and Services:
 - a. Provide foundations or other mountings as required to support the completed and operational element permanently and safely and without uncontrolled subsidence or other movement.
 - b. Design structural elements in accordance with code and requirements specified in Chapter B.

- c. Miscellaneous Site Structures with Floors or Roofs: Designed to comply with same requirements as building superstructure.
- d. Substantiation: Same as required for superstructure.

D. Durability:

1. Weather Resistance of Built Elements: Comply with requirements of Chapter B.
2. Weather Resistance of Plants and Turf: Use plants that will withstand extremes of weather likely to occur in any 5 years without supplementary irrigation and without seasonal protection other than mulch.
 - a. Government agrees that maintenance to the level specified by the Contractor will be necessary to assure survival of the plants.
 - b. Exception: Supplementary irrigation is expected during new plant establishment period.
 - c. Substantiation:
 - 1) Design Development: Documentation of the historical extremes and duration of extremes in temperature, rainfall, and drought periods; proven-in-use documentation on major plant groups to be used, under similar site conditions in the same climatic region; length of time required for full establishment.
 - 2) Construction Documents: Proven-in-use documentation of all plants used; proven-in-use data may be from actual nearby growing locations or from non-local nursery supplier having plants grown under same climatic conditions.
 - 3) Closeout: Maintenance requirements of all plants used, for new plant establishment period and subsequent maintenance; length of establishment period for each type of plant.
 - 4) Occupancy: Report of inspection of plants at end of spring, summer, fall, and winter, beginning with season immediately following planting.
3. Soil Erosion Resistance: Comply with the code and the following:
 - a. Maintain the existing site features that contribute to erosion resistance to the greatest extent possible.
 - b. The present natural resistance to erosion is insufficient; take measures to improve the resistance to erosion.
 - c. Design to minimize soil erosion.
 - d. If erosion occurs during construction and within one year after completion, relocation or replacement of eroded soil and repair of eroded areas shall be performed by the Contractor at no cost to the Government.
 - e. If erosion occurs within one year after completion, provide improved erosion control measures within one week after notification by Government.
4. Traffic Resistance: Provide finished site surfaces that are permanently resistant to the type of traffic to be expected, under all weather conditions.
 - a. Where vegetated surfaces will not withstand the anticipated traffic, provide pavement or other surfacing. At loading dock use concrete pavement.
 - b. If vegetated surfaces are damaged due to traffic within one year after completion, replacement of vegetation with more durable materials shall be performed by the Contractor at no cost to the Government.
 - c. Vegetation and fencing may be used to discourage pedestrian traffic, if other functional requirements can be met.
 - d. Substantiation, Paving and Hard Surfacing:
 - 1) Preliminary Design: Identification of types and thicknesses of paving and surfacing for various functions.
 - 2) Design Development: Proven-in-use documentation of paving and surfacing consistent with types of traffic anticipated; manufacturer's data may be submitted for modular paving units.
 - 3) Construction Documents: Engineering calculations, based on anticipated weights and intensity of traffic.

5. Flooding:
 - a. Control storm water runoff as required to prevent damage to project elements, including vegetation, and to prevent damage to neighboring sites, including vegetation.
 - b. Time concentration for turf areas shall be 20 minutes for turf and 10 minutes for paved areas. Use these times of rainfall concentrations to determine the rainfall intensity.
 - c. Small drainage systems (tc less than 30 minutes) "peak to peak", discharges shall be used to determine the design discharge.
 - d. Minimum storm drainpipe size to be 12 inches.
 - e. Minimum size of laterals carrying roof runoff shall be 4 inches.
 - f. Concentrated flows in paved areas to be carried by concrete curb and gutter or paved concrete swale.
 - g. Concentrated runoff will not be allowed across or through access aisles in the POV hardstand. Sheet flow shall be directed to the gutter.
 - h. Minimum slope of .5% for curb and gutter carrying concentrated storm runoff.
 - i. Maximum flow velocity in turfed drainage ditches shall be 4 fps.
 - j. Prevent storm water runoff into public utilities in excess of actual capacity or amount allowed by public agencies, whichever is less, under conditions of the most extreme rainfall that might occur in 50 years.
 - k. Minimize increase in storm water runoff into rivers, streams, lakes, and other waterways and drainageways as required by authorities having jurisdiction.
 - l. Substantiation:
 - 1) Design Development: Engineering design of site drainage, including drainage volume calculations.
 6. Vehicular Collision: Design to minimize the probability of vehicular impact on site fixtures and accidental driving on lawns and landscaped areas.
- E. Operation and Maintenance:
1. Utilities: See Chapter D and other applicable chapters in Volume D for design parameters.
 2. Water Conservation: Minimize water use.
 - a. Substantiation:
 - 1) Design Development: Irrigation system design for required plant materials; estimated water use, by season and by year; explanation of conservation measures.
 - 2) Construction Documents: Calculated water use based on final design and irrigation schedule.
 - 3) Commissioning: Field verification.
 3. Theft Deterrence:
 - a. Provide fixtures that are either anchored securely to the ground using fastenings not easily removable or that are too heavy for one person to carry, and that are made of materials with no intrinsic or salvage value.

METHODS OF CONSTRUCTION

- A. The following existing site elements must be preserved:
1. Existing parking (AM#10) outside of standoff area and service drive.
- B. The following existing site elements must be removed to accomplish new construction:

END OF CHAPTER G

CHAPTER G2 - SITE IMPROVEMENTS

PERFORMANCE

A. Basic Function:

1. Provide all elements required for finished and durable site surfaces, and outdoor improvements described in the project program.
2. Site improvements comprise the following elements:
 - a. Pavements and Surfacing: Finished surfaces for vehicular, ~~and (AM#10) traffic and a minimum of 320 parking spaces, and~~ pedestrian, other than turf. Refer to the following reference standards for design guidance: Geometric Features - TM5-803-5, TM5-822-2, AEIM, Uniform Federal Accessibility Standards. Turn around capability shall be provided for dead end drives or access aisles. Contractor shall use the pavement jointing details found in Chapter II, Civil, of the EIM. Specifically the following plates shall be used in the construction of pavements: Plate A-23, A-24, A-26, A-27, A-28, A-29, A-30, A-31, A-32, A-33, A-34, A-35, A-36, A-37, A-38, A-39, A-40, A-41.
 - b. Site Fixtures and Equipment: Fixtures, equipment, and miscellaneous structures located out-of-doors, except those located on the roof or mounted on walls of buildings.
 - c. Landscaping: Outdoor plants and elements supporting plants.
 - d. Helipad: Design criteria for (AM#8) one Sikorsky UH-60, Blackhawk helicopter. Reference TM 5-803-7 for technical manual for the design of the helipad. (AM#8) Additional space shall be provided for up to two additional Sikorsky UH-60, Blackhawk helicopters on grass or other suitable surface.
 - 1) Helipad shall be (VFR) Visual Flight Rules.
 - 2) Provide tie-downs, moorings, grounding and wind sock as required.
 - 3) Providing helipad lights and directional landing lights.
 - 4) Provide standard helipad markings. Special painting of Fort Polk HQ and JRTC Logos will be provided by the Government.
 - 5) Fencing of the helipad is not required.
3. Where site improvements elements also must function as elements defined within another element group, meet the requirements of both element groups.
4. In addition to the requirements of this chapter, comply with all applicable requirements of Chapter 111 - Facility Performance and Chapter G - Sitework.

B. Appearance:

1. Plants:
 - a. Outdoor: Provide an attractively landscaped site that looks tidy during non-growing seasons.
 - b. Substantiation:
 - 1) Design Development: Identification of types of plants to be used, with any seasonal variations in appearance.
2. Pavements and Surfacing: Provide rigid surfaces that are smooth, consistent in color and finish, sloped and drained to avoid ponding, and neatly finished at edges.
 - a. Vehicular Areas: Marked neatly to denote traffic lanes and parking spaces.
 - b. Pedestrian Areas: Designed to contrast visually with vehicular areas.

C. Durability:

1. Weather Resistance of Plants: Provide a concealed irrigation system for all plantings that are not required to survive normal weather extremes without supplementary irrigation.
2. Pavements and Surfacing: Provide systems that are designed and engineered to withstand the types and intensity of traffic anticipated for the facility size and type.

END OF CHAPTER G2

CHAPTER G22 - SITE FIXTURES AND EQUIPMENT

PERFORMANCE

A. Basic Function:

1. Provide all fixtures, equipment (other than that associated with services), and miscellaneous structures located out-of-doors that are required by the project program and that are required as a result of these and other requirements.
2. Site fixtures and equipment that are required include:
 - a. Site furnishings, including:
 - 1) Flagpole at front entrance relocated from existing HQ Building.
 - b. Outdoor signs, other than roadway and parking lot signs.
 - 1) Main building identification sign, located in front lawn.
3. Site fixtures and equipment that will be provided by Government are as follows; Contractor is to provide mountings and install:
 - a. Cannon relocated from existing HQ Building.
4. Where site fixtures and equipment elements also must function as elements defined within another element group, meet the requirements of both element groups.
5. In addition to the requirements of this chapter, comply with all applicable requirements of Chapter 111 - Facility Performance, Chapter G - Sitework, and Chapter G2 - Site Improvements.

B. Health and Safety:

1. Physical Security:
 - a. Fences and Barriers Other Than Building Exterior Walls:
 - 1) ~~Security Level 1: [(AM#8) Security Gate and Control to Loading Dock].~~
 - a) ~~7 foot high, 20 foot wide heavy duty chain link gate, mounted on rollers and opened/closed by electric power.~~
 - a) (AM#10) Vertical pivot, steel pipe security gate with cable reinforcement designed to hinder, impede and prevent trucks from penetrating the minimum standoff area. The security gate shall be equivalent to Delta Model TT212E cable-reinforced crash beam barrier system.
 - b) Electric lock, with remote control, from FOD Office
 - c) Two-way communications (both sides of gate) to FOD Office.
 - d) CCTV (color/tilt/pan/zoom) camera, with monitor in FOD Office.
 - e) Gate area should be lighted.
 - f) Earth berms should extend/connect to each side of gate.
 - g) Gate should be located, on Access Road to Loading Dock area, far enough off Corps Road to allow turn off of semi-truck/trailer and clear Corps Road.
 - 2) (AM#10) Earthen Berms: Designed to hinder, impede or prevent vehicular traffic and in accordance with the Department of Defense Antiterrorism/Force Protection Construction Standards.
 - 3) (AM#10) Bollards: Designed to hinder, impede or prevent vehicular traffic and in accordance with the Department of Defense Antiterrorism/Force Protection Construction Standards.
 - 2) Substantiation:
 - a) Design Development: Identification of security barriers and method of achieving performance.

C. Durability:

1. Service Life:
 - a. Other Fixed Site Improvements: 15 years under normal use and weather.
2. Weather Resistance: Same as specified for components of exterior shell in Chapter B.

PRODUCTS (AM#10)

~~A. Fences:~~

- ~~1. Use the following:~~
 - ~~a. Galvanized chain link fencing (AM#8) at gate.~~

~~B. A. Signs:~~

1. Match existing signs on Fort Polk.

~~C. B. Flagpoles:~~ Move existing flagpole from HQ Building.

END OF CHAPTER G22

SECTION 01016

DESIGN DOCUMENT REQUIREMENTS

09/2001

AMENDMENTS NO. 0001, 0005 and 0010

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

ACI INTERNATIONAL (ACI)

ACI SP-66 (1994) ACI Detailing Manual

AMERICAN WELDING SOCIETY (AWS)

AWS D1.1 (2000) Structural Welding Code - Steel

INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO)

ICBO Bldg Code (1997) Uniform Building Code (3 Vol.)

MILITARY HANDBOOKS (MIL HDBK)

MIL HDBK 1008C (10 June 1997) Fire Protection For
Facilities Engineering, Design and
Construction

US ARMY CORPS OF ENGINEERS, SOUTHWESTERN DIVISION (SWD)

SWD-AEIM (October, 2000) Architectural and
Engineering Instructions Manual (SWD-AEIM)

1.2 SUBMITTALS

SD-05 Design Data

Design Data Checklists; .

Include the Fire Protection, Code Analysis, and Handicapped Checklists (Attachments A, B, and C) at the end of this Section with the Design Analysis and submit with the design submittals.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

3.1 DRAWINGS

Prepare, organize, and present drawings in the format specified. Provide drawings complete, accurate, and explicit enough to show compliance with the Contract requirements and to permit construction. The layout of

individual sheets and the organization of the assembled set shall follow and communicate a logical sequence. General information shall be presented first, progressing to more detailed information. When assembling details, begin in the upper left-hand corner of the sheet with letters progressing to the right and down. Drawings illustrating systems proposed to meet the requirements of the Contract performance specifications shall reflect proper detailing for each such system to assure appropriate use, proper fit, compatibility of components and coordination with the design analysis and specifications required by this section. Coordinate drawings to ensure there are no conflicts between design disciplines and between drawings and specifications. For specific drawing requirements, see paragraphs: 60 PERCENT PRELIMINARY DESIGN REQUIREMENTS and 100 PERCENT FINAL DESIGN REQUIREMENTS.

The following subparagraphs cover general drawing requirements and supplement those specified in SWD-AEIM, Chapter VIII DRAWINGS.

3.1.1 CADD Drawings

The Contractor shall ensure that all delivered CADD digital files and data (e.g., base files, reference files, cell/block libraries) are compatible with the Government's target CADD system and operating system, which is Bentley Systems MicroStation, version 5 or SE, running on Microsoft Windows 95/NT, and adhere to the standards and requirements specified. The term "compatible" means that data is in native digital format i.e. .dgn, and can be accessed directly by the target CADD system without translation, preprocessing, or postprocessing of the digital data files. It is the responsibility of the Contractor to ensure this level of compatibility.

3.1.2 CADD Standards

CADD drawings shall be prepared in accordance with the applicable general and discipline-specific provisions for drawing formats, level/layer assignments, line colors, line weights, and line types of the "Tri-Service A/E/C Standards" and the "SWD Architectural and Engineering Instruction Manual (AEIM), Chapter VIII, "Drafting Standards."

The CADD standards for design of this project are located at the following Web sites:

(AM#5) <http://tsc.wes.army.mil/products/standards/aec/aecstdweb.asp>.

Seed/prototype files, containing the Government's preset standard settings can be downloaded from the Internet at the following address:

(AM#5) <http://tsc.wes.army.mil/products/standards/aec/aecstdweb.asp>.

Electronic reference files containing the Government's standard border/title block sheets can be downloaded from the Internet at the following address:

(AM#5) <http://tsc.wes.army.mil/products/standards/aec/aecstdweb.asp>.

The Contractor shall submit a written request for approval of any deviations from the Government's established CADD standards. No deviations will be permitted unless prior written approval of such deviation has been received from the Government.

3.1.3 Size of CADD Drawings

Overall Size of CADD drawings shall be 711mm by 1016mm (28 inches by 40 inches), at the trim line. Full size drawings shall be submitted for all design submittals. SI working units and the District's standard file-naming convention shall be used.

3.1.4 .CAL Files

In addition to copying the electronic CADD drawing files to the Submittals' CD-ROM disk, include the drawings in .cal format so that the drawings may be viewed on screen using MaxView Reader that is located on the Solicitation and Contract CD-ROM disk. Include a "sendable" compiled Project.svd index file, created with MaxView Author, so that the drawings may be viewed by double-clicking on this file. MaxView's web site is <http://www.maxview.com>. Keep the CADD files and the .cal files in separate folders.

3.1.5 Drawing Format

Title block shall include, as a minimum, project title and location, sheet title, and sequence number. For each design submittal, each Contractor-prepared drawing shall bear the printed name and signature of the registered architect or appropriate registered engineer responsible for the work portrayed on that drawing and proposed to meet the Contract requirements. For the final submittal, each Contractor-prepared drawing shall bear the stamp or seal and signature of the registered architect or appropriate registered engineer responsible for the work portrayed on that drawing and proposed to meet the Contract requirements.

3.1.6 Drawings Sequence

Arrange drawings by design discipline in accordance with the SWD-AEIM, Chapter VIII, Appendix A, Plate D1, Standard Arrangement Of Drawings.

3.1.7 Drawings Required

As a minimum, the construction drawings shall consist of the following:

- a. Cover or Title Sheet
- b. Index of Drawings (each technical discipline shall have a separate drawing legend sheet located in front of each respective section), Legend, and Abbreviations
- c. Civil/Site Drawings, including Utility Drawings (Water Supply, Wastewater, Gas, Electrical, Fiber and Communication)
- d. Soil Boring Locations and Logs of Borings
- e. Turfing and Landscaping Drawings, including Irrigation Layout Drawings
- f. Architectural Drawings
- e. Interior Design Drawings
- f. Structural Drawings

- g. Mechanical Drawings
- h. Fire Protection Drawings
- i. Electrical Drawings (including communications, security and fire alarm)
- j. Lightning Protection
- k. Environmental Drawings
- l. Schedules - Doors, Windows, Interior Finishes, Equipment, etc.

3.1.8 Drawing Scales

Work shall be drawn at the scales listed below. Other scales may be used only by written authorization through the Contracting Officer. All disciplines should use the same scale for plan sheets. Scale for all drawings and delineation will permit complete legibility. A graphic bar or checkerboard scale will be provided on each sheet near the lower left hand corner of the sheet. Unless specified elsewhere, conventional scale standards are as follows:

	<u>METRIC (SI) (ENGLISH)</u>
Site Plans (Buildings)	No smaller than 1:200 (No smaller than 1-inch = 30 feet)
Floor Plans (Note 1)	1:50 to 1:100 (1/4-inch to 1/8-inch = 1 foot)
Roof Plans	1:100 (1/8-inch = 1 foot)
Exterior Elevations	1:100 (1/8-inch = 1 foot)
Interior Elevations	1:50 (1/4-inch)
Cross Sections 1:50 to	1:100 (1/4-inch to 1/8-inch)
Wall Sections (Note 3)	1:20 (3/4-inch = 1 foot)
Stair Details	1:20 (3/4-inch = 1 foot)
Details (Note 2)	1:5 or 1:10 (3 inches or 1 1/2 inches = 1 foot)
Reflected Ceiling Plans	1:100 (1/8-inch = 1 foot)
Interior Toilet Elevations	1:20 (3/4-inch = 1 foot)
Wall Types	1:5 or 1:10 (3 inches or 1 1/2 inches = 1 foot)

Notes:

1. Scale of composite plans shall be as required so that the entire facility is drawn on one sheet without break lines.

2. The details shall be large enough to show all fixtures, accessories, equipment, materials, manner of construction, clearances required for proper maintenance, and complete dimensions. Toilet rooms and Equipment rooms are examples of the kind of spaces which shall be drawn as a Detail Plan. All details containing sheet metal flashing shall be 1:5 (3 inches = 1 foot).

3. May be 1:20 if pertinent details are shown at larger scale.

3.1.9 North Arrows

North arrows shall be oriented the same direction on all plan sheets and by all disciplines, including site and civil drawings. Plan north shall be "up" or to the left on the drawings. Indicate true north on composite plan drawings.

3.1.10 Legends and Symbols

Standard material symbols used on the drawings shall be provided as a separate legend drawing located just in front of the drawings in the set. Add additional material symbols to the Legend Sheet as needed for the project.

The standard symbols used for amendments (a triangular box) or contract modifications (a type of circular box, see the chapter on Drafting Criteria) shall not be used for any other purpose, and care must be taken to avoid using similar appearing but technically different symbols.

3.1.11 Key Plans

Provide key plans whenever the site or floor plan occupies more than one sheet of drawings. Locate the Key Plans at a uniform location on all site and floor and roof plan sheets to show the interrelationship between the building portions. Orient key plans in the same direction as the floor plan on all plan type drawings of all disciplines. All key plans shall be the same size and same location on the drawings.

3.1.12 Building Composite Plans

When required because of size of the building footprint, provide composite floor plans for the architectural, structural, mechanical, fire protection, life safety, and electrical disciplines. Include match lines for combining individual portions of floor plans. For mechanical plans, provide composite plumbing and heating, air conditioning, and ventilation (HVAC) plans showing plumbing and HVAC systems for each level. For plumbing composite sheets, building outline and pertinent HVAC equipment shall be half-toned with plumbing system at standard lineweight. For HVAC composite sheets, building outline and pertinent plumbing equipment shall be half-toned with HVAC equipment at standard lineweight. Do not provide construction notes on these plans. Include a key plan and room schedule legend on the composite plan sheets.

3.1.13 Schedules

Schedules shall be clear and complete. Furnish as many columns as necessary to present the essential information. Do not use the "Remarks" column as a substitute for an information column. Normally a single item shall be presented on each schedule line. Other scheduling methods as standard with the Architect-Engineer may be used if approved by written authorization from the Contracting Officer.

3.1.14 Notes

Notes may be placed on drawings to reduce the amount of repetitive drafting, provided that clarity is not lost. General notes should be placed at the right-hand edge of the sheet and, if possible, should be located on the first sheet in the set. Notes that pertain to each drawing should be placed on each drawing. Keyed notes are permitted. General notes may be provided on a separate sheet if space does not exist on the Abbreviation and Legend sheets.

3.1.15 Dimensions

Dimensions shall be complete, accurate, and fully coordinated. Use slashes, not arrowheads or dots. Dimensions should be to points easily measurable in the construction, and shall be laid so as not to eliminate refiguring in the field. Dimensions should be tied-in to column lines, etc., to facilitate checking. Plan dimensions for frame construction should be to face of stud (or sheathing) for exterior walls, to one face of stud for interior partitions, and to centerline of openings. For masonry construction, dimensions shall be to one or both nominal faces of masonry and to jambs of openings.

- a. (AM#1) Horizontal dimensions shall occur on the plans and vertical dimensions on sections and elevations.

3.1.16 Standard Drawings

Standard Drawings, when furnished for site adaptation, will generally be utilized without basic architectural change. Portions of the drawings not pertinent to the project will be deleted. Specific instructions will be given when design changes are required.

3.1.17 Sketches

All sketches presented during the design phase shall be reduced to 216 mm by 280 mm (8-1/2" by 11") and included in the design analysis to document the design options and decisions evaluated during the design process.

3.2 CONSTRUCTION SPECIFICATIONS

3.2.1 Editing Construction Specifications

The Contractor shall use Corps of Engineers' UFGS Guide Specifications. Specification paragraphs and subparagraphs shall not be rewritten to lessen the quality of the original guide specification sections. Only bracketed choices and inapplicable items may be deleted unless the changes are required to bring the specification into conformance with the performance specifications of the Contract. The Contractor shall complete the editing of all options in these specifications. Where designer notes are provided, the Contractor shall edit the choice in accordance with the recommendations and guidance of the Notes. **The specifications shall clearly identify, where appropriate, the specific products chosen to meet the requirements of the Contract (manufacturers' brand names and model numbers or similar product information). The Contractor is responsible for coordinating references, along with the Contract performance requirements, to specific specification sections (number and title) within the construction specifications.** See additional requirements in paragraphs 60 PERCENT DESIGN REQUIREMENTS and 100 PERCENT DESIGN REQUIREMENTS of this Section and in Section 01015 DESIGN REQUIREMENTS AFTER AWARD, paragraph DESIGN DOCUMENTS..

3.2.1.1 Required Modifications to Commercial Guide Specifications

- a. Indicate the guide specification series (e.g. CSI SpecText, MasterSpec, SpecLink) in either the header or footer of each section.
- b. Change references to the "Architect" or "Engineer" to "Contracting Officer" and "Owner" to "Government".

c. Change references to "Section 01300" or "Section 01300 SUBMITTALS" to "Section 01330 CONSTRUCTION SUBMITTAL PROCEDURES."

3.2.1.2 Additions

If the Construction Specifications do not cover a feature that is in the project, insert additional requirements in their proper locations to adequately cover the feature of work. Additions shall not **(AM#1) lessen** the quality of materials indicated by the specifications. If a new material is added, it shall be properly referenced in "REFERENCES," "MANUFACTURERS," "MANUFACTURED UNITS," "MATERIALS," "SUBMITTALS," "TESTS," and "INSTALLATION" paragraphs, as applicable.

3.2.1.3 Deletion of Inapplicable Text Material

Delete all inapplicable text material to tailor the specifications to fit the project. After deletion has been made of all inapplicable paragraphs, subparagraphs, choices, and schedules from the body of the guide specifications (including but not limited to the correction of lists in "SUBMITTALS," "TESTS," and "INSTALLATION" paragraphs), delete all nonapplicable references listed in the preceding "REFERENCES" and "MATERIALS" paragraphs.

3.2.1.4 References to Specification Sections

The Contractor shall be responsible for coordinating references, along with the Contract requirements, to specific specification sections (number and title) within the project specifications. Revise section references (title and number) to reflect the titles and numbers of specification sections used.

3.2.1.5 Construction Submittals

The Contractor is responsible for all submittals. See Section 01330 CONSTRUCTION SUBMITTAL PROCEDURES for the definition of Government Approved and For Information Only (FIO) submittals. All submittals shall be "FIO" unless otherwise specified. Submittals noted in the UFGS guides as "G" shall be changed to "For Information Only".

3.2.2 Commercially Available Guide Specifications

For items of work not covered by the UFGS guide specifications, the Contractor may develop specifications utilizing commercially available construction guide specifications such as "SpecText" published by The Construction Specifications Institute and "MasterSpec" published by The American Institute of Architects. These must be converted to UFGS format to be compatible with the Corps of Engineers Resident Management System (RMS) and the Specsintact or BSD SpecLink (Building Systems Design, Inc., Atlanta, GA, <http://csi.worldweb.net/technic/master/bsdms.htm> and http://www.bsdsoftlink.com/speclink/sl_frame.htm). Do not use DBI/CSI PerSpecView to develop the construction specifications. The UFGS format is specified in the Specsintact ARMYSECT.tpl template. Commercially available guide specifications must be converted to the UFGS format in order to develop the submittal register. Use Wordspec to convert the sections to Specsintact SISGML to produce the sections' submittal registers. See paragraph "Required Modifications to Commercial Guide Specifications" concerning references to the "Architect/Engineer" and the "Owner". See Section 01015 DESIGN REQUIREMENTS AFTER AWARD, paragraph DESIGN DOCUMENTS

for additional information.

3.2.3 Division 1 Sections

Include Division 1 specifications sections contained in this Contract as part of the construction specifications without change.

3.2.4 Format ForConstruction Specifications

Submit the construction specifications, including cover page and project table of contents, printed using a word processor. Use the Corps of Engineers Specsintact with SGML, Version 3.0 or higher, software. DO NOT submit sections that were created as straight MSWord documents. Any MSWord sections must be created using MS Word For Windows software with the Specsintact WordSpec Macro installed and engaged. These Word documents must be formatted using the Specsintact menu bars that WordSpec installs on the MSWord desktop. Otherwise, Word documents will not be compatible with Specsintact and WordSpec will not be able to convert the sections to Specsintact for producing the submittal register. Use If any commercially available guide specifications are used and are from a relational database system such as BSD SpecLink, then export the sections to Rich Text Format (RTF) word processing files to convert the sections to MS Word documents for those users who are specified to receive MS Word copies of the specifications.

The Corps of Engineers Specsintact and Wordspec software can be downloaded from the Internet at the following address:

<http://kscdl2.ksc.nasa.gov/specsintact/>.

The Corps of Engineers UFGS guide specifications (SI SGML format), the Lighting Fixture Standard Drawing 40-06-04 Details, and Design Criteria (e.g. Army Technical Manuals (TM's), Engineering Manuals, Engineering Technical Letters, Engineer Circulars, Engineer Pamphlets, Design Guides, and Military Handbooks) can be downloaded from the Internet at the following address:

[http://www.hnd.usace.army.mil/Techinfo/Engineer Publications or Support Documents](http://www.hnd.usace.army.mil/Techinfo/Engineer%20Publications%20or%20Support%20Documents)

The guides can only be downloaded in Winzip *.zip files. These are downloadable executable files.

Specsintact software and the UFGS guide specifications can also be obtained from the current version of the Construction Criteria Base CD, issued by the National Institute of Building Sciences, telephone number 202/289-7800, fax number 202-289-1092, internet address is:

<http://www.nibs.org>.

Fort Worth District guide specifications and the District supplements to the UFGS guide specifications are located on the Internet at the following address:

<http://www.swf.usace.army.mil/links/e&c/ec-a/>

Print hard copies using laser printer and good quality white paper. For the design submittals, editing of the Construction Specifications shall be shown by using redlining (underlined text) for text insertions and

strikeouts for text deletions. The corrected 100 percent specifications with review comments incorporated shall be cleaned up (markings for insertion and deletions removed) and submitted in both hard copy and on CD-ROM disk. Carbon copies are not acceptable.

3.2.4.2 Cover Page

The Cover page shall be similar to the Contract Cover page and shall include:

- a. Project title, activity and location
- b. Construction contract number
- c. Construction Contractor's name and address
- d. Design firm's name and address
- e. Names of design team members responsible for each Contractor prepared technical discipline of the project specification
- f. Name and signature of a Principal of the design firm
- g. The Table of Contents shall list the 16 Divisions contained in CSI format and the specification section numbers and titles contained in the project specification. Do not list in the Table of Contents CSI Divisions that are not required for the project.

3.2.5 Construction Submittals

All construction submittals shall be in accordance with Section 01330, "CONSTRUCTION SUBMITTAL PROCEDURES."

3.2.6 Submittal Register

An electronic version of the ENG Form 4288 is located on the Solicitation and Contract Award CD-ROM disks in folder "Subreg." This version is the Specsintact DOS Submittal Register program and includes a Readme.txt file. Copy the files to the computer's C:\ drive, remove the read-only attributes, and then double-click on either file "subreg.exe" or on "submit.bat." This is **not** a Windows-based program so the mouse **does not** work. Editing instructions are on-screen, such as press the "F5 (add)" and then the "E" keys to create new empty submittals, the "PgDn" key to complete editing, and the "A" key to accept. For each submittal, fill in the Section Number, Activity Number if applicable, Paragraph Number, Description, Type of Submittal (e.g. SD-01 through SD-11(See Section 01330 CONSTRUCTION SUBMITTAL PROCEDURES)), Classification (e.g. G or FIO), and the Contractor's proposed submittal date. Fill in columns "a" through "o" on the ENG Form 4288 and submit a copy of the "Subreg" folder with the updated files and a hard copy of the register as required for the various design submittals. Unless Section 01330 CONSTRUCTION SUBMITTAL PROCEDURES allows a submittal to be Government approved ("G"), all submittals shall be

"FIO" for Information Only (Contractor Approved) items. A blank MS Excel version of the Form 4288 Submittal Register is also included in the "Subreg" folder and may be used if allowed by the Contracting Officer.

3.3 DESIGN ANALYSES

Prepare design analyses (basis of design, calculations, and selections) for each design discipline. Specific requirements relative to the technical content to be provided are specified in the paragraphs 60 PERCENT PRELIMINARY DESIGN REQUIREMENTS and 100 PERCENT DESIGN REQUIREMENTS. The design analyses shall be a presentation of facts to demonstrate that the concept of the project is fully understood and that the design is based on sound engineering. The design analysis for each discipline shall be in accordance with Chapter IX of the SWD-AEIM.

3.4 COMMON DESIGN DEFICIENCIES

The work involved in making corrections due to common deficiencies becomes lost effort and time for both the designer and the reviewer. Carefully compare the design and contract documents with all requirements at several points in the design process to avoid unnecessary changes at a later date. Some of the requirements which are most often overlooked include:

a. Requirements of the COE 2, Southwestern Division's ARCHITECTURAL AND ENGINEERING INSTRUCTIONS MANUAL (SWD-AEIM) have been repeatedly overlooked in the past.

b. Failure to incorporate the Fort Worth District's supplemental local requirements to the UFGS guide specifications.

c. Not using correct abbreviations or terminology on the drawings. Abbreviations must match what is used on the standard abbreviation sheet and terminology must match what is used in the standard technical guide specifications.

d. Not using the correct scales, north arrow designation, section cut system, or incomplete dimensioning on the drawings.

e. Not providing sufficient space for door operation hardware at doors which swing into a wall running perpendicular to the opening. 100 mm minimum is required between edge of door frame and perpendicular walls.

f. Not providing correct and complete Design Analysis information written in the present tense. The Design Analysis will be written following the format indicated herein. A separate Fire Protection section in the Design Analysis with input from all disciplines is one area which is often overlooked and shall be included.

g. Not correctly presenting or coordinating (to avoid interference) features of Fire Protection, Noise Control, and Physical Security.

h. Not correctly referencing and cross referencing building sections, wall sections, details, etc.

i. Failure to read and use technical notes in editing the Guide Specifications.

j. Failure to coordinate all disciplines prior to submittal of projects for review.

k. Improper use of fire-retardant wood. Fire-retardant wood is combustible; its use in buildings that are of noncombustible construction is extremely limited (see UBC for the minor allowable uses). Because of the potential for severe degradation, fire retardant plywood shall not be used in a roof or roofing system, or in structural applications.

l. Incorrectly listing trade names in door hardware specifications in lieu of ANSI numbers and failure to correctly specify hardware finishes.

m. Control joints in CMU walls and brick expansion joints in face brick are not shown on both architectural plans, elevations and structural plans, or are inconsistent. Note also control joint locating and coordination for floor tile per Tile Council of America recommendations.

n. Failure to delete all publications which do not apply to the particular project.

o. North is not oriented the same direction on all sheets (civil, site, arch).

3.5 DESIGN CERTIFICATION

The Contractor shall provide certification for each design submittal in accordance with paragraph SUBMISSION OF CONSTRUCTION DRAWINGS, SPECIFICATIONS AND DESIGN ANALYSES, subparagraph "Certifications," of Section 01015 DESIGN REQUIREMENTS AFTER AWARD.

3.6 60 PERCENT PRELIMINARY DESIGN REQUIREMENTS

Preliminary design documents shall include all applicable plans, details, and specifications specified in the paragraph DESIGN DETAILS, drawn to 60 percent completion or more, unless otherwise indicated. Identify and resolve conflicts in the design requirements, between the design requirements and the Contractor's design proposal, or those due to lack of thorough understanding of the nature and scope of work prior to submittal of the 60 percent design. Drawings, design analysis, and specifications will be reviewed for compliance with the Contract design requirements at this design submittal. Submit the following:

3.6.1 Rendering

The Contractor shall prepare an architectural rendering for inclusion with the 60 percent Design Submittal. Rendering shall be eye-level of the building entrance, from a vantage point showing the cannon and flag pole. The rendering will be in full color, represent the final exterior color and material selections, approximately 500 mm by 600 mm in size, on illustration board, matted and framed with non-glare glass, and with project title on mat. The perspective shall be from an eye-level or low-level aerial point of view that will highlight the most attractive features of the project. The Contractor shall furnish one preliminary black-and-white sketch of the proposed rendering to the Contracting Officer, along with three (3) proposed exterior color schemes, for review and acceptance prior to proceeding with the color version.

3.6.2 Drawings

Furnish all drawings that are required for the 100 percent submittal. Except for the demolition and environmental abatement work, all drawings shall be developed to approximately 60 percent completion. Drawings for demolition and environmental abatement work shall be 100 percent complete.

The drawings shall be fully coordinated with the design analysis and specifications.

3.6.3 Specifications

Provide all specification sections required for 100 percent submittal. Specifications for demolition and environmental abatement work shall be 100 percent complete. All other specifications required for the completion of the building, site work, utilities, turfing, and landscaping shall be at least mark-ups of the required technical and trade sections. Include the identification of the "author" of the industry guide specifications used, any mandatory guide specifications required in this Contract, and a project table of contents listing all sections to be included in the project.

3.6.4 Submittal Register

Prepare a Submittal Register as specified in Section 01330 CONSTRUCTION SUBMITTAL PROCEDURES and paragraph CONSTRUCTION SPECIFICATIONS, subparagraph "Submittal Register," of this Section. Submittals for demolition and environmental abatement work shall be 100 percent complete. Submittals for all other work shall be developed to the extent required to support the level of design included in this submittal. Submit a copy of the "Subreg" folder with the updated files and program and four hard copies of the register with this design submittal.

3.6.5 Design Analysis

The design analysis shall give the basis for design for all disciplines and shall establish specific goals, objectives, and priorities for the design of this project. Identify, explain, and document use of design criteria and how the design meets goals, objectives, and priorities. The design analysis shall comply with SWD-AEIM, Chapter IX, and include narrative description and analysis of all building systems, appropriate checklists, calculations, and catalog cut sheets of equipment used in the design.

3.6.6 Sustainable Project Rating Tool (SPiRiT)

In accordance with the substantiation requirements for Volume II DESIGN AND PERFORMANCE REQUIREMENTS, PERFORMANCE REQUIREMENTS Chapter 111 FACILITY PERFORMANCE, paragraph "Environmental Responsible Design," update the Contractor's Proposal's Sustainable Project Rating Tool (SPiRiT) sheets, indicating the status of design related to the listed elements to be achieved and any problems in achieving these elements. (AM#10)

3.6.7 Substantiation Requirements

See Volume II DESIGN AND PERFORMANCE REQUIREMENTS, PERFORMANCE REQUIREMENTS Chapters. (AM#10)

3.6.8 Demolition

Provide the site and building demolition drawings, 100 percent complete, ready to start abatement and demolition work..

3.6.9 Civil Design

Include all drawings required for 100 percent completion. Drawings shall fully describe the type and the scope of work required.

3.6.10 Landscaping Design

Provide Landscaping Plan, including sprinkler system layout, and any details required for this level of design.

3.6.11 Architectural Design

60 percent architectural drawing submittal shall be a complete set of architectural drawings without large scale details. All other drawings shall be complete except referencing of the large scale details. Room finish schedule, and door, window, and louver schedules, shall all be complete except for references to details.

3.6.12 Interior Design

Provide SID/CID Notebooks and design analysis.

3.6.13 Structural Design

Provide details and notes for required structural work. Provide elevation views, sections, and details necessary to illustrate the design at a 60 percent level of completion. Roof framing plan(s) shall show sufficient details to clearly indicate the type of framing system used, size, and spacing of members and their elevations.

3.6.14 Mechanical Design

Sufficient plans, piping diagrams, sections, flow diagrams, details, schedules, and control diagrams/sequences shall be provided as necessary to define the required design intent at this level of design. Floor plans shall use the architectural floor plans as a basis, with the building outline half-toned. Unless otherwise indicated, all floor plans shall be drawn at a minimum 1:100 (1/8-inch = 1'-0") scale and shall show room names and numbers. Provide preliminary mechanical room sections to ensure that major equipment items, piping, and ductwork will fit as designed. For the 60 percent submittal, all supply and return mains shall be shown as double-lined although branch ducts, takeoffs, and ductwork to diffusers may be single-lined. Piping 6 inches and larger shall be shown as double-lined for the 60 percent submittals.

Complete Attachment C for mechanical room sizing.

3.6.15 Electrical Design

Fully coordinate the 60 percent design drawings with the design analysis. Provide sufficient plans, single-line diagrams, riser diagrams, details, and schedules as necessary to define the required design intent for this design level. Indicate all circuits, circuit breakers or fuse locations, panelboards, and PDUs known at this level of design.

3.6.16 Fire Protection Design

Provide the Life Safety Plan and the Fire Protection site and floor plans, complete. Fire protection details shall be sufficient for this level of design.

3.6.17 Environmental Design

Provide the following items for the 60 percent submittal:

- a. Identification of and removal procedures for hazardous materials in Building 350.
- b. Environmental Survey Sampling Plan, 100 percent complete, ready to start abatement and demolition work.
- c. Design Analysis

3.7 100 PERCENT DESIGN REQUIREMENTS

All documents shall be 100 percent complete, ready for start of construction.

3.7.1 Drawings

The drawings shall be complete, ready for start of construction, and include all necessary and required details, be thoroughly checked, and fully coordinated with the construction specifications and all other Construction Documents. The final drawings shall include all the requirements and drawings defined for the 60 percent submittal plus any additional detail drawings required for complete 100% design. Drawing scale shall match architectural drawing requirements. Plans shall be legible at full-size. Previous comments and applicable criteria changes shall have been incorporated into the design.

3.7.2 Submittal Register

Prepare a complete a Submittal Register using ENG Form 4288 "Submittal Register" as specified in Section 01330 CONSTRUCTION SUBMITTAL PROCEDURES and paragraph CONSTRUCTION SPECIFICATIONS, subparagraph "Submittal Register," of this Section, listing submittals for all specification sections that require submittals. Submit four hard copies and on a CD-ROM disk the updated submittal register files and program for this design submittal and the final submittal.

3.7.3 Specifications

The construction specifications shall be complete, ready for start of construction, fully coordinated with the drawings and design analysis, and include all work. Specifications shall be in final form for construction and include all changes requested during the 60 percent review stage.

3.7.4 Design Analysis

The Design Analysis shall include the basic information presented in the previous submittal, corrected to reflect changes in content made in response to review comments. Outline specifications shall be omitted from the Final Design Analysis as the information is included on the final drawings and construction specifications. The design analysis shall be written in the present tense and will comply with Chapter IX, SWD AEIM.

3.7.5 Sustainable Project Rating Tool (SPiRiT)

In accordance the substantiation requirements for Volume II DESIGN AND PERFORMANCE REQUIREMENTS, PERFORMANCE REQUIREMENTS Chapter 111 FACILITY PERFORMANCE, paragraph "Environmental Responsible Design," update the Contractor's Sustainable Project Rating Tool (SPiRiT) sheets, indicating

the status of design related to the listed elements and the achievement level of the various goals listed in Volume II DESIGN AND PERFORMANCE REQUIREMENTS, PERFORMANCE REQUIREMENTS Chapter 111 FACILITY PERFORMANCE, paragraph "Environmental Responsible Design." Provide certification of achievement of the specified rating. (AM#10)

3.7.6 Substantiation Requirements

See Volume II DESIGN AND PERFORMANCE REQUIREMENTS, PERFORMANCE REQUIREMENTS Chapters. (AM#10)

3.7.7 Interior Design

Update the drawings, building related interior design (SID), Comprehensive Interior Design (CID), and the SID/CID Notebooks as required as a result of the 60 percent review.

3.7.8 Mechanical Design

All ductwork shall be double-lined. Piping 6 inches and larger shall be shown as double-lined.

3.8 DESIGN DETAILS

Drawings shall include the applicable plans, details, and requirements specified in the SWD-AEIM and those specified below.

3.8.1 Demolition

Show new work and demolition work on separate drawings. The type and the scope of removal work intended shall be clear from an inspection of the documents. Keyed notes for removal will be allowed.

a. Site Demolition Drawings (Removal Plan)

The removal plan shall show the existing physical features and condition of the site before construction. Include the field survey to show all above and below ground utilities; buildings, drives, roads and parking areas, walks, and vegetation, and building demolition floor plans; and such facilities as foundations and existing contours. Physical feature shall be as indicated and noted: to be removed, to remain, or to be relocated.

b. Building Demolition Drawings (Removal Plan(s))

The type and the scope of removal work intended shall be clear from an inspection of the documents. Show the existing physical features and condition of the site before construction. Show all walls, fixtures, and utilities to be removed. Physical features shall be indicated and noted: to be removed, to remain, or to be relocated.

3.8.2 Civil Design

The drawings shall be complete, fully describing the type and the scope of work required. Include all necessary and required details, thoroughly checked, and fully coordinated with the Construction Specifications and all other Construction Documents. Include the following as applicable:

- Cover Sheet and index of drawings
- Location and vicinity map including haul routes
- Site plan and details
- Grading and drainage plan
- Utility plan with profiles and details
- Pavement plan and details
- Soils boring logs
- Landscaping plans and details

a. Location Plan and Vicinity Map

A Vicinity Map consists of a small scale drawing of the project location, similar to a road map. A Location Plan consists of a small scale drawing showing the Government property or reservation limit with the construction project site shown. Show the Contracting Officer-approved Contractor access and haul routes, load limits on bridges along haul routes, and the designated waste and/or borrow areas. Upon request, a reproducible base sheet will be provided by the Fort Worth District for the Contractor's use in preparing the Location Plan.

b. Site Plan

Show all the site layout information necessary to field locate the building, walks, parking lots, and all other appurtenances to be constructed for the project. Identify all site related items such as curbs, pavements, walks, courtyards, bollards, trash enclosures, and retaining walls. Unless otherwise specified, site plans shall be at a scale of 1:400, 1:500, or 1:600 (1" = 20' or 1" = 30'). Existing or proposed contours shall not be shown on this Plan. The Site Plan, prior to adding the dimensions, shall serve as the base sheet to the other Plans, such as the Utilities Plan, Grading and Drainage Plans and the Landscape Plan. The Site Plan will show all existing physical features and utilities within and adjacent to the work site that will remain after the proposed construction has been completed. Include free zones, construction limits, storage areas, etc.

Show the building orientation and horizontal dimensional relationships to streets, walks, property lines, easements, fences, and other structures. Space between structures will provide open areas in accordance with good land-use planning and due consideration of future development plans. Maintain fire clearance separations for access for equipment acceptable to the installation (i.e. Fire Chief). Show geometric features of all roads, streets, sidewalks and parking areas. Provide details of all site features.

c. Grading and Drainage Plan

Provide a preliminary grading and drainage plan at a scale of 1:400, 1:500, or 1:600 (1" = 20' or 1" = 30') unless otherwise specified. Indicate new and existing grading contours at 300 mm (1-foot) contour intervals. Provide spot elevations in sufficient numbers so that interpolation between contours is not required. Some examples are: corners of paved areas and parking lots, low points, high points, flow lines of ditches and swales, changes in degree of slope and grading at building corners to insure positive drainage from the facility.

Indicate finished floor elevation of new building(s). Finished floor elevations shall be a minimum of 300 mm (12 inches) above the highest point of the outside finished grade and slope away from the building. Grade contours shall be at 240 mm intervals and spot elevations shall be

provided at all site development features.

Show layout of the new and existing storm drainage systems, if applicable, including existing and new storm drainage flows, ditches, swales and piped systems.

Provide the appropriate top of structure elevations and pipe invert elevations of both the new and existing drainage system.

d. Erosion Control Plans

Erosion control plans shall show locations of all sediment basins, diversion ditches, areas to receive rock blanket, and other erosion control structures, indicating the approximate drainage areas each will serve. Indicate the materials, construction, and capacity of each structure.

e. Composite Utilities Plan With Profiles And Details

If required, provide a Composite Utilities Plan at a scale of 1:400, 1:500, or 1:600 (1" = 20' or 1" = 30'). Indicate locations of new and existing utilities. Plans shall show layout of the new and existing storm drainage, gas, sanitary sewer, fire protection, electrical, communication, water, steam, and any other utility systems which need to be provided for. Include new and existing contours. Show mains and distribution lines as well as all appurtenances such as meters, manholes, and valves.

f. Grading Sections

Grading sections showing finished and existing grades may be provided to supplement the required grading plan.

g. Pavement Plan and Details

Provide pavement plans for all parking lots, roads, equipment pads and sidewalks. Include cross sections of all paving designs and include details of curbs, gutters, pads, sidewalks, stairs, inlets and other features.

h. Soils Boring Logs

If applicable, provide logs of soil borings provided by the geotechnical engineer.

3.8.3 Landscaping

Provide a Landscape Plan showing trees, shrubs, ground covers, seeded and sodded areas. The Landscape Plan shall be prepared by a Licensed Landscape Architect. The landscape plan shall be in accordance with the Installation Design Guide. Select and specify types of plant materials that are locally grown, commercially available, and acclimated to the project environment. Include a plant materials schedule or listing which lists the botanical names, common names, key, size, and the method of transplanting for each landscape element. The landscape plan shall also show all unsurfaced ground areas disturbed by construction within the project limits with these areas shown to be seeded, sodded, or mulched as required. Include designs and details for required site furnishings and accessories.

The Contractor shall provide designs and details as necessary for required site furnishings and accessories.

a. Sprinkler Irrigation Systems

Provide a sprinkler irrigation plan, designating the trees, shrubs, bushes, ground cover, and lawn area to be irrigated. Provide flow and pressure requirements. Include appropriate details.

3.8.4 Architectural Design

a. Floor Plans

Provide double line floor plan(s) of the entire building(s), drawn at the largest scale practicable to include the entire building or floor level on a single sheet. The building footprint may be of a size that will require the floor plans to be divided into multiple areas. Floor plans shall be scaled double-line drawings showing the functional arrangement, structural column or bay indicators, material patterns, location of all openings and plumbing fixtures. Section cuts, wall types, notes and leaders, general notes, and dimensions shall be complete. The plans shall indicate room numbers and titles, door swings, door and window numbers and types. Provide door, window, louver, and other schedules as required. Show a north arrow on each floor plan. Include enlarged toilet room plans. If applicable, provide enlarged plans for any new stairs. The first floor plan sheet shall include a gross area tabulation comparing the actual square footage with the authorized square footage of the facility. Fully justify architect-engineer suggestions for plan improvement. Include:

- Overall, Control, Opening, and complete dimensioning
- Room Names and Numbers
- Wall and Building section cuts
- Door Swings and Numbers
- Window Types
- Square Footage
- General Notes

Where major structural elements are included as parts of architectural detailing, do not indicate sizes. Define these elements as part of the structural design documents. Major elements of mechanical and electrical equipment affecting space allocation shall be shown on the architectural plan to the extent practicable and coordinated with other respective disciplines. When applicable, Government-furnished and Contractor-installed, or Government-furnished and installed, items shall be shown as dashed lines.

b. Reflected Ceiling Plans

Reflected ceiling plans shall include all notes, complete legends and pocheing patterns of materials to be used. Provide reflected Ceiling Plans for all spaces in the building(s). Reflected ceiling plans shall show the ceiling tile layout and location of gypsum wallboard and other ceiling types where applicable. Show all light fixtures, air diffusers, grilles, registers, exit lights, public address speakers, fire alarm strobe lights, sprinkler head layout, ceiling mounted equipment access panels or removable ceiling tile and grid elements, smoke and heat detectors, wall fire ratings, ceiling mounted equipment removal pathways, ceiling mounted television mounts, and other ceiling mounted items. The fixtures and other equipment shall be laid out in a regular pattern symmetrical with the ceiling tile grid, or symmetrical with the room centerlines, columns, windows, or other feature that dominates. All ceiling mounted items shown

shall be fully coordinated with all other disciplines.

c. Roof Plan

Roof plan shall be complete showing slopes, locations for roof and overflow drains, equipment, and walkways. Coordinate elements located on the roof with all disciplines.

d. Building Elevations

Provide all building elevations complete showing the appearance and architectural treatment. Elevations shall be dimensioned to show story height, total height, and relation to grade. Indicate critical elevations such as top of finish floor and top of steel.

e. Building Sections

Include building cross section and longitudinal sections to show general interior volumes, framing method, relationship to adjacent structures, and height of ceilings and partitions. Identify materials used and necessary dimensions.

f. Wall Sections

Drawings shall include all wall section and stair section conditions including enclosed corridor(s) showing vertical control elevations and dimensions. Label all materials. Cut sections through doors, windows, and other critical wall section locations. Wall sections shall not be broken. Include additional details when necessary to illustrate abutting adjacent buildings and important or unusual features. All horizontal dimensions shall occur on the plans and vertical dimensions on the sections and elevations.

g. Room Finish Schedules

Include signage.

h. Door, Window, and Louver Schedules

Door schedule shall include door and frame types and references to door details and hardware sets. Window and louver schedules shall indicate window and louver types, sizes, and references to details.

i. Fire Ratings

Clearly indicate wall ratings and fire hazards as required by the National Fire Protection Association Codes (NFPA). See Military Handbook MIL HDBK 1008C, particularly Section 2.1 Basic Criteria and Section 2.1.2 Partitions.

In addition to the wall rating criteria required by the Codes, provide a minimum of one-hour rated wall assembly around all Janitors Closets, Store Rooms, Mechanical and Electrical Rooms or Closets. Wall fire ratings shall be graphically shown by a continuous symbol or pattern within the wall on the reflected ceiling plan and/or on a Fire Protection/Life Safety Plan. When other functions coexist with the fire protection functions, their integration shall be clearly indicated with an analysis that describes how both functions will be served. Provide a separate, composite type floor plan which makes an accurate presentation of these various features and functions. By authorized written permission, where the building and features being shown are unusually simple, this information may be included

on other drawings. Rated wall details shall include the design number of the testing laboratory certifying the rating.

j. Modular Design

Use modular design practices for the design of all masonry buildings or components of buildings. Dimensions shall be figured to whole or half-unit lengths (in increments of 100 mm) in order to reduce on-site cutting of masonry. Units less than 102 mm long shall be avoided.

k. Room and Door Numbering

The Room and Door Numbering system shall be consistent for all buildings designed under any one contract. Room numbering shall start at the main entrance and proceed clockwise around functional areas.

l. Facility Elevation

The elevation of the first floor shall be indicated as 100 000 mm (100 feet) and shall be a minimum of 300 mm above finish grade. Elevation for other floors, footings, etc., shall be related to this figure. Sea level elevations shall not be shown on the building drawings. Show elevations of the first floor above sea level on the grading plan.

m. Access to Utilities

All utilities within the building, such as piping, ductwork, and electrical work, shall be concealed in finished areas unless otherwise specified in the Program and Performance Requirements. Provide plumbing chases in toilet areas. Carefully figure the clear space above ceilings and the size of chases to accommodate piping slopes and connections, ductwork crossovers, and fittings, HVAC piping and valve service spaces, and similar situations. Provide access to valves, cleanouts, etc. Space provided for utilities systems shall be adequate but not excessive.

3.8.5 Interior Design

Furnish Comprehensive Interior Design (CID) Package, including floor plans, finish and color schedules, interior design analysis, and sample/color boards, in accordance with SWD-AEIM, Chapter III, paragraph "Interior Design." SID refers to the building related exterior and interior finishes. CID includes the SID interior design package and the design, selection, arrangement, and color coordination of the furniture, furnishings, and art work. On the floor plan(s), show furnishings that are not considered part of the Contract, such as Government-furnished, Government-installed items, by the use of dashed lines and designated as "Not-In-Contract" (NIC). Use the design analysis to explain the desired image or visual appearance of the interior of the facility.

3.8.5.1 Submittal Requirements for SID/CID Notebooks (Color/Finish Sample Boards)

a. Furnish 4 sets of color/finish board(s) with attached samples of the proposed building-related finish materials mounted on 215 mm by 280 mm by 1.5 mm (8-1/2 inch by 11 inch by 1/16 inch) thick mat board in three-ring notebooks. Epoxy glue, hot-melt glue, or contact cement shall be used to attach samples; Scotch tape, double-backed tape, or rubber cement will not be acceptable. Heavy samples shall be mechanically fastened. Photographs or colored photocopies are acceptable only for illustrating furniture,

furnishings, and art work; not for material and color samples.

b. The notebooks shall be labeled on the outside spine and front cover with the phase percentage, CID, project title and location, Contract number, date, and the Contractor's name and address.

c. Sequence and Content of CID Submittal

The sequence and content of CID Submittals shall be as follows:

- (1) Title Page.
- (2) Table of Contents.
- (3) Narrative of Interior Design Objectives.
- (4) Exterior Elevation Drawing.
- (5) Exterior Building Material Legend.
- (6) Exterior Building Material Color Board(s).
- (7) Room Finish Schedules.
- (8) Interior Color Placement Plan.
- (9) Interior Color Boards (according to color placement plan).

Each sample shall indicate color, texture, and finish; and, if patterned, shall be large enough to define full pattern. Samples shall be identified as to type of material, area of installation, manufacturer, and transmittal number under which certification of the material represented will be submitted in accordance with the requirements of Section 01330 CONSTRUCTION SUBMITTAL PROCEDURES.

- (10) Interior Floor Plan(s) And Furniture Layout, including an index keyed to the furniture, furnishings, and art work illustration sheets..
- (11) Signage Location Plans(s).
- (12) Interior Signage Color Boards.
- (13) Furniture and Furnishings Illustration Sheets, for all rooms.
- (14) Art Work Placement Plan and Illustration sheets, including specifications, for all rooms.

3.8.6 Structural Design

Drawings shall include foundation plans and details, floor framing plans for each floor when applicable, floor slab plans, and roof framing plans.

a. Show the location of all in-wall columns or pilasters.

b. Foundation and slab plans shall show the size and location of all foundation elements, such as foundation walls, grade beams and footings. Elevations for footings shall be indicated on the plan. Plans for slabs-on-grade and exterior stoop slabs at building entrances

shall show location and type of joints, slab thicknesses and reinforcing, elevation of slab surfaces, and any other design features, such as equipment bases, heavy Lab equipments, isolated foundations and the in-slab electrical raceway, which affect the slab design.

c. The sizes, locations, and elevations of footings shall be shown.

d. Coordinate slab plans with the Electrical sheets and indicate the locations of in-slab electrical raceway trench ducts or similar items.

e. Show concrete slab-on-grade thicknesses and sections.

f. Show proposed treatment of special foundations and other unique or complex features and details.

g. Provide elevation views, sections, and details necessary to illustrate the design.

h. Roof framing plans shall show sufficient details to clearly indicate the type of framing system used, size, and spacing of members and their elevations.

i. Drawings shall include overall building plan dimensions, north arrows, and design notes.

j. Grid Systems, Dimensions, and Floor Elevations

Each foundation and slab plan and roof framing plan shall have an alpha-numeric grid system aligned with any in-wall columns or pilasters, or with load bearing and non-load bearing walls, as applicable. The same grid system shall be used for all plan views. Each plan view shown shall have all necessary dimensions. On plan views, the dimensions shall define the location of grid lines, offsets, and all structural elements, as well as the overall sizes of the structure. The finish elevation of the floor slab shall be indicated as 100 000 mm (100 feet), and elevations for foundations, walls and roof members shall be referenced to this basic elevation.

k. Plan Sheets

(1) Foundation and Slab Plans

Foundation and slab plans shall show the size and location of all foundation elements, such as foundation walls, grade beams and footings. Elevations for footings shall be indicated on the plan. Plans for slabs-on-grade and exterior stoop slabs at building entrances shall show location and type of joints, slab thicknesses and reinforcing, elevation of slab surfaces, and any other design features, such as equipment bases, heavy Lab equipments, isolated foundations and the in-slab electrical raceway, which affect the slab design.

(2) Roof Framing Plans

Roof framing plans shall be provided for all parts of the structure. Plans shall show the size, spacing, and location of all roof framing members, their supporting in-wall columns, pilasters or walls, all auxiliary members such as bracing and bridging, and the size and

location of all major openings through the roof. Plans shall show support system for satellite dishes.

1. Elevation Views, Sections and Details Sheets

Elevation views, sections, and details necessary to illustrate fully the design shall be provided. Some requirements peculiar to the various structural materials are described below.

(1) Concrete

Include elevation views as necessary, plus sections and details to show the outlines of concrete cross-sections, reinforcing bar arrangements, concrete cover for rebar, installation of embedded items, and joint construction. All lap splice and embedment lengths for reinforcing bars shall be clearly indicated on the drawings. A sill detail for each foundation condition at exterior and interior doors shall be provided.

(2) Masonry

Wall reinforcing shall be located and identified on plans, in section cuts, elevation views, or in schedules. When required, include structural elevations to clarify the construction requirements for masonry reinforcement, especially the reinforcement around wall openings. Listed below are some frequently required masonry details, most of which are shown in ICBO Bldg Code and SWD-AEIM. Details may be extracted from other sources and incorporated into the final drawings. Edit the details to reflect the specific requirements of this project.

(3) Structural Steel, Steel Joists, and Steel Decking

Structural steel connections shall be fully detailed and shown on the drawings. The anchorage of beams, trusses, joists, and steel deck to walls or other bearings, and the extra framing or reinforcement required at deck openings shall also be detailed. Notes, details, or schedules on the drawings shall indicate the steel deck attachment method to be used, and shall give the size and spacing for perimeter, side lap, intermediate supports and end lap attachments. Welded connections shall be detailed using standard weld symbols illustrated in AWS D1.1. All applicable weld sizes, spacing, types, contours, and finishes shall be shown.

(4) Cold-Formed Steel Studs

Cold-formed steel connections shall be fully detailed and shown on the drawings. The anchorage of studs to top and bottom runners, of top and bottom runners to supporting members, and the extra framing at openings shall also be detailed. Notes, details, or schedules on the drawings shall indicate the steel stud and runner dimensions, spacing, and attachments.

m. Schedules

(1) Foundation Schedules

Foundation schedules for footings or grade beams shall be included as applicable. The schedule shall include all pertinent information required for the foundation system being used.

(2) Framing Schedules

For concrete framing, beam, and column schedules shall conform to the requirements of the ACI SP-66. For structural steel framing, provide a column schedule complete with design loads at splices, if any, and at column bases, plus a tabulation of the loads, shears, moments and/or axial loads to be resisted by the beams and their connections.

n. Equipment Loads

All equipment loads which exceed 80 kg and are not supported by concrete slab-on-grade, shall be identified on the drawings by showing equipment locations, total weights, and reaction loads at support points.

o. Notes

(1) Design Notes

Under the heading "Designer's Notes," the structural drawings shall contain notes which begin:

"The structural design was prepared using the following data:".

The data then listed shall include the structural loading criteria used for design, such as roof and floor live loads, snow load design parameters, wind speed and wind load design parameters, seismic design parameters (Zone Z, I, R_w, C, and S values), allowable soil bearing pressures (as recommended by the foundation analysis), foundation design depth, design wind uplift pressures for steel joists and other data pertinent to future alterations. Also, to be listed are the ASTM designations and stress grades of the applicable structural materials: steel, masonry, concrete for each usage, reinforcing bars, and bolts.

(2) General Notes

Other notes, which direct the work to be performed, the materials to be used, etc., shall be grouped under the heading of "General Notes." Include in these notes a description of the building's structural system, if necessary.

3.8.7 Mechanical Design

Provide plans, piping diagrams and isometrics, mechanical room sections, water and air flow diagrams, details, schedules, control diagrams, sequence of operations, etc. as necessary to define the required design intent. Floor plans shall use the architectural floor plans as a basis, with the building outline half-toned. Large-scale plans of congested areas shall be provided. Coordinate with architectural design for provision of access panels for all concealed valves, traps and air vents, etc. Unless otherwise indicated, all floor plans shall be drawn at a minimum 1:100 (1/8-inch = 1'-0") scale and shall show room names and numbers. Drawings shall include, but not limited to, the following:

a. Mechanical Abbreviation, Legend, and General Notes Sheet

This sheet shall include all mechanical abbreviations and symbols that

will be used on the drawings. Include mechanical general installation notes that are required to clarify the construction intent that may not be readily apparent in the specifications or on the drawings. Symbols shall be grouped into sections; as a minimum, provide sections for Plumbing and HVAC. Control drawing symbols shall be shown on a separate drawing.

b. Plumbing Drawings

Plumbing Plans: Plumbing plans show the design and layout of the domestic hot and cold water distribution systems; make-up water piping; soil, waste and vent piping; and storm water drainage system. Include routing of piping systems from the connections within the structure to a point 1.5 meters (5 feet) outside the structure. The grade of all drain lines shall be calculated and invert elevations established. All plans shall show plumbing fixtures. All electrical panels and equipment and pertinent HVAC equipment (e.g. chillers, expansion tanks, boilers, AHU's, pumps) shall be outlined in half-tone on the plumbing plans. Plans may be drawn at 1:100 (1/8 inch = 1 foot) scale as long as legibility is not compromised. Plumbing fixtures and drains shown on the drawings shall be designated by the same identification system used in the Construction Specification Plumbing Fixture Schedule. Soil, waste, vent and storm drainage piping shall be shown on separate sheets from cold and hot water distribution piping and make-up water piping. Provide a roof plan showing roof drains and sanitary vent penetrations. Include the following:

(1) Enlarged toilet room plans showing all fixtures, water, waste, and vent piping for each toilet area.

(2) Plumbing water and waste/vent riser diagrams for each toilet area. Provide plumbing water and waste/vent riser diagrams for each toilet area.

(3) Enlarged mechanical and boiler room plumbing plans, drawn at a minimum 1:50 scale, showing layout of all plumbing equipment and piping within the rooms. To show spatial relationships, indicate the location of HVAC equipment, gas service, condenser water or chilled water entrances, fire protection entrance and risers, and electrical panels or equipment located in the room.

(4) Plumbing details, including those for roof and overflow drains, and schedules.

c. Mechanical HVAC Drawings, Details, and Schedules

Show on mechanical HVAC drawings, all items of mechanical equipment, including boiler room equipment, chilled water equipment, condenser water equipment, air handling units, air distribution and exhaust systems, etc., to clearly illustrate all HVAC system designs, and to determine proper space allocation within the intent of the architectural layout requirements. Plans and sections shall be developed sufficiently to ensure that major equipment items, piping, and ductwork cause no interference with structural members, electrical equipment, etc. Provide Schedules for each item of mechanical equipment. Provide installation details showing specification requirements such as isolation and balancing valves, thermometers, pressure gauges, equipment pads, strainers, vents, hangers, and vibration isolation for each item of mechanical equipment. Include enlarged mechanical and boiler room floor plans showing the layout of all

HVAC equipment, piping, and ducts located within the rooms and dedicated access space for items requiring maintenance; and drawn at a minimum 1:50 (1/4 inch = 1'-0") scale. Provide mechanical and boiler room sections to show equipment and components, ductwork connections and routing, and relationship to adjacent structural features. Provide chilled and hot water system flow diagrams, showing chillers, cooling towers, piping, pumps, boilers, and all connected cooling and heating equipment. Show associated GPM flow rates. Provide airflow diagrams showing CFM quantities for outside air, return air, and supply air; supply-air side of each diagram shall be broken down into zones, with each zone supply, return, and relief/exhaust CFM quantities identified.

Mechanical HVAC Plans: Mechanical HVAC plans shall show the design and layout of the hot water piping distribution system and equipment, chilled water piping distribution system and equipment, condenser water piping distribution system and equipment, air supply and distribution systems, and ventilation and exhaust systems. Air supply and distribution systems shall show all ductwork, including supply and return mains, branch ducts, and terminal unit (single and dual duct VAV and CV boxes) takeoffs; ductwork to diffusers; diffusers, grilles, and registers; and fire and fire/smoke dampers.

d. HVAC Control Drawings

Provide a one-line control diagram showing DDC interface points, detailed sequence of operations, and DDC control points list for all mechanical equipment and systems in accordance with SWD-AEIM, Chapter V.

3.8.8 Electrical Design

Provide plans, electrical and UPS room sections, single-line diagrams, riser diagrams, details, and schedules as necessary to define the required design intent. Coordinate the electrical and communications design with the design for other disciplines. Floor plans shall use the architectural floor plans as a basis with the building outline half-toned. Unless otherwise indicated, all floor plans shall be drawn at a minimum (**AM# 5**) **1:100 (1/8-inch = 1 foot)** scale and shall show room names and numbers. Include the following as applicable:

- a. Electrical Abbreviations and Legends
- b. Drawing Notes
- c. One-Line Diagram

Detail the complete electrical system with a simplified one-line diagram. The diagram shall show ratings of major equipment including short circuit ratings. Use standard symbols for electrical equipment including, but not limited to, switchgear, sectionalizing cabinets, transformers, generators, uninterruptible power systems (UPS), switchboards, panel boards, power distribution units (PDUs), motor control centers (MCCs), motor starters. Include switchgear fuses or circuit breaker ratings; transformer ratings (including K-ratings) and connection configuration; switchboard ratings (including metering); panelboard current and ampere interrupting current (AIC) ratings; PDU ratings (including isolation transformers and K-ratings), raceway and conduit sizes and material type; MCC ratings; motor starter ratings; and conductor and ground type, size, and insulation ratings.

d. Riser Diagrams

e. Power Plan

Detail the electrical wiring for outlets, including raised floor receptacles, other than lighting. Identify rooms by name and number. When applicable, include a power cable tray plan and communications tray plan, detailing the underfloor cable tray components, outlets, and routing.

f. Lighting Plan

Detail the electrical wiring and switching for lighting. Identify rooms by name and number.

g. Lighting Fixture Schedule

h. Panelboard and PDU Schedules

Detail the circuits and circuit breakers or fuse locations in various panelboards, including panelboards in power distribution units (PDUs). Panelboard schedules shall include the designation, location, mounting (flush or surface), number of phases and wires, voltage, capacity and total connected and demand load. Indicate the trip rating, frame size, interrupting rating, and number of poles for each circuit breaker in the panelboards. List the circuit number, circuit description, and load for each branch circuit. Include estimated maximum demand for each panel and for entire building and other relative information.

i. Emergency Systems

Detail the electrical requirements for emergency systems such as emergency generator, UPS, emergency lighting, and fire alarm system (coordinate with fire protection plans).

j. Site Plan

Detail the connection of pad-mounted switchgear, pad-mounted sectionalizing cabinets, vaults, and underground electrical and communications ducts. Show utilities the underground electric lines and communications ducts will cross.

k. Communications System

Detail the conduit and raceways required to support communications and audio/visual systems requirements, including, but not limited to intercoms, security, cable television, computer data, data transmission (local area network), and telephone.

l. Security System

Detail security camera and alarm requirements, and riser diagrams.

m. Lightning Protection System

Detail the lightning protection system including air terminal types and locations; cross and down conductor material, sizes and connections; ground rod material, sizes, and locations; ground counterpoise materials, sizes, and routing, and test well construction and locations. Show locations of all air terminals, roof conductors, down conductors, ground rods, and

counterpoise.

n. Grounding System

Show locations for and detail grounding electrode; grounding conductor and bond materials, sizes, and locations; and isolation grounds.

o. Cathodic Protection System

Detail test point construction and locations, sacrificial anode systems, impressed current systems, etc.

p. Miscellaneous Details

Provide communications manhole details, electric vault details, special light fixture details, etc.

3.8.9 Fire Protection Design

Provide plans, diagrams, sections, and details as necessary to define the required design intent. Floor plans shall use the architectural floor plans as a basis, with the building outline half-toned. Unless otherwise indicated, floor plans shall be drawn at a minimum 1:100 (1/8 inch = 1'-0") scale and shall show room names and numbers. Drawings shall include, but not limited to, the following:

a. Fire Protection Plans

Show the following on the fire protection plans:

- fire service entry and size to a point 1525 mm (5 feet) outside of building;
- back flow preventer and size;
- system riser and size;
- zone risers, fire department connection, alarm bell, detectors, zones, room by room occupancy hazards and ceiling types per zone in tabular format, general description of system, applicable NFPA codes listing, sprinkler type per ceiling and application;
- water demand data, including design density, hose allowance, and design area for each applicable occupancy hazard; and
- a note stating that system shall be hydraulically designed.

Plans shall not show sprinkler piping or heads, unless it is necessary for coordination or system definition in special applications.

b. Fire Protection Details

Include the following fire protection details:

- mechanical riser diagram, including all pipe sizes;
- electrical riser diagram;
- any necessary sections to show routing of piping or sprinkler head locations, fire service entrance detail, exterior wall and slab penetration details, hydraulic design data from flow test provided by Government, hydrant designations from flow test, and fire protection symbols list.

c. Site Plan

Include:

- underground fire service main routing and size, from point of

- connection at existing water main, to building entry point;
- and fire hydrant locations used in flow test.

Label fire hydrants to match flow test designations shown on drawings and described in design analysis.

d. Life Safety Plan

Show:

- location of fire separation walls, column, floor and roof protection,
- path of travel for emergency egress and panic exits,
- access to building for fire fighting,
- rated doors and windows,
- requirement for mechanical and electrical penetrations through fire separation walls and floors,
- placement of fire extinguishers, and
- occupancy types.

3.8.10 Environmental Design

Provide the following items:

Confirm hazardous materials in Building 350 as listed in Volume 4 Attachment.

Environmental Survey Sampling Plan

Design Analysis

The Contractor shall prepare a Chapter in the Design Analysis entitled: "Environmental Protection Compliance". This Chapter shall summarize how the project complies with all environmental laws and regulations. As a minimum, the Chapter shall include the following:

- a. The Permitting and/or Approving Authority(ies).
- b. Construction/Operating Permits, Notices, Reviews and/or Approvals required. If, when checking with the agencies, a permit, notice or approval is not required, include a copy of the telephone conversation memorandum or letter from the agency.
- c. Time required by the permitting agencies to process the application(s) and issue the permits.
- d. Fee schedule including filing/application fees, review fees, emissions fees, certification testing, etc.
- e. Monitoring and/or compliance testing requirements.
- f. Actual Environmental regulations governing the applications, exemptions, variances, etc. or at a minimum a brief summary of the regulation and title.

3.9 **ATTACHMENTS**

Attachments A, B, and C follow this page.

3.9.1 **ATTACHMENT A****CODE ANALYSIS**

UNIFORM BUILDING CODE (UBC) AND NFPA "LIFE SAFETY CODE" ANALYSIS

LIFE SAFETY AND FIRE PROTECTION IS AN INTEGRAL PART OF EVERY FACILITY DESIGN. RECOGNIZED CODES AND ACCEPTED SAFETY STANDARDS SHALL BE FOLLOWED IN THE DESIGN OF ALL FACILITIES. OF THE VARIOUS CODES AND SAFETY STANDARDS THE NATIONAL FIRE PROTECTION ASSOC. (NFPA) "LIFE SAFETY CODE" SHALL TAKE PRECEDENCE. ALL APPLICABLE REQUIREMENTS OF THE LIFE SAFETY CODE SHALL BE INCORPORATED INTO EACH DESIGN. FOR TYPE OF CONSTRUCTION, FIRE AREA LIMITATIONS, AND ALLOWABLE BUILDING HEIGHTS THE DESIGN SHALL FOLLOW THE UNIFORM BUILDING CODE (UBC).

CHECK LIST

PROJECT NAME _____ DATE _____

LOCATION _____

3.9.1.1 UNIFORM BUILDING CODE ANALYSIS

a. OCCUPANCY CLASSIFICATION (See Table 5A):

Area:	Classification:
(GROUP: _____):	Div. _____
(GROUP: _____):	Div. _____
(GROUP: _____):	Div. _____

PRINCIPAL OCCUPANCY _____

OTHERS (SPECIFY) _____

b. TYPE OF CONSTRUCTION :

c. OCCUPANCY SEPERATION REQUIRED (SEE TABLE 5-B):

_____	TO	_____	=	_____	HRS
_____	TO	_____	=	_____	HRS
_____	TO	_____	=	_____	HRS
_____	TO	_____	=	_____	HRS

d. FIRE RESISTANCE OF EXTERIOR WALLS: (SEE TABLE 5-A)

NORTH _____

SOUTH _____
EAST _____
WEST _____
OTHER _____

e. OPENINGS IN EXTERIOR WALLS: (SEE TABLE 5-A)

NORTH _____
SOUTH _____
EAST _____
WEST _____
OTHER _____

f. MAX. ALLOWABLE FLOOR AREA (SEE TABLE 5-C):

ALLOWABLE:

IF SPRINKLERED: _____

ALLOW. AREA INCREASES _____

CALCULATED ACTUAL FLOOR AREA:

Floor	Square Footage
-------	----------------

Totals:

g. MAX. ALLOWABLE HEIGHT (SEE TABLE 5-D):

METERS (FEET): _____

STORIES: _____

Proposed Height of Building: _____

Actual No. of Stories: _____

h. COMMENTS:

DESIGNER: _____

a. CLASSIFICATION OF OCCUPANCY:

HAZARD OF CONTENTS:

LOW _____

_____ORDINARY _____

_____HIGH _____

b. FIRE RESISTIVE REQUIREMENTS:

EXTERIOR WALLS: _____ HRS _____

INTERIOR WALLS: _____ HRS _____

STRUCTURAL FRAME: _____ HRS _____

VERTICAL OPENINGS: _____ HRS _____

FLOORS: _____ HRS _____

ROOFS: _____ HRS _____

EXTERIOR DOORS: _____ HRS _____

EXTERIOR WINDOWS: _____ HRS _____

BOILER ROOM ENCLOSURE _____ HRS _____

OTHER (LIST) _____ HRS _____

_____ HRS _____

_____ HRS _____

_____ HRS _____

c. MEANS OF EGRESS:

OCCUPANCY LOAD FACTOR: _____

OCCUPANCY	FACTOR	ACTUAL AREA	ACTUAL LOAD
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

d. NUMBER OF EXITS REQUIRED:

e. MINIMUM WIDTH OF EXITS:

CALCULATED: _____

ACTUAL: _____

f. MAXIMUM ALLOWABLE TRAVEL DISTANCE TO EXIT:

WITH SPRINKLERS: _____

g. EXIT DOORS:

MINIMUM WIDTH ALLOWED: _____

MAXIMUM LEAF WIDTH ALLOWED: _____

WIDTH REQUIRED FOR NO.OF OCCUPANTS: _____

h. EXIT CORRIDORS:

MAX. COMMON PATH OF TRAVEL: _____

MINIMUM ALLOWABLE WIDTH: _____

REQUIRED TO HAVE EXIT AT EACH END OF CORRIDOR?

DEAD END CORRIDORS ALLOWED? _____

MAXIMUM LENGTH: _____

WALL FIRE RESISTANCE REQUIRED: _____

DOORS & FRAME FIRE RESISTANCE REQUIRED:

i. STAIRS:

MINIMUM WIDTH _____ FOR OCCUP. LOAD OF _____

MINIMUM WIDTH _____ FOR OCCUP. LOAD OF _____

MINIMUM WIDTH _____ FOR OCCUP. LOAD OF _____

MINIMUM WIDTH _____ FOR OCCUP. LOAD OF _____

MAX. RISER ALLOWED: _____

MINIMUM TREAD ALLOWED: _____

LANDINGS:

MIN. SIZE: _____

MAX. VERTICAL DIST. BETWEEN LANDINGS: _____

REQUIRED HEIGHT OF RAILINGS:

HANDRAILS:

REQUIRED AT EACH SIDE? _____

INTERMEDIATE RAIL REQUIRED? _____

HEIGHT ABOVE NOSING _____

INTERMEDIATE RAIL REQUIRED? _____

MAX. SPACE ALLOWED BETWEEN RAILS: _____

STAIR ENCLOSURE REQUIRED? _____

STAIR TO ROOF REQUIRED? _____

STAIR TO BASEMENT REQUIRED? _____

j. HATCHWAY ACCESS TO ROOF REQUIRED? _____

k. LADDER ACCESS TO ROOF REQUIRED?

l. HORIZONTAL EXIT REQUIREMENTS:

m. PROTECTION OF OPENINGS NEAR EXTERIOR STAIR EXIT DOORS:

n. SMOKEPROOF ENCLOSURE REQUIRED:

o. RAMPS:

MAX. SLOPE TO USE AS EXIT _____

HANDRAILS REQUIRED? _____

p. COMMENTS:

DESIGNER: _____

FOLLOWING IS A LIST OF ADDITIONAL "NFPA" CODES THAT ARE COMMONLY USED.
INDICATE WHICH OF THESE CODES ARE USED AND ADD THOSE REQUIREMENTS TO THIS
ANALYSIS.

NFPA 10	FIRE EXTINGUISHERS, PORTABLE
NFPA 75	COMPUTER/DATA PROCESSING FACILITIES
NFPA 80	FIRE DOORS AND WINDOWS
NFPA 88A	PARKING STRUCTURES
NFPA 409	AIRCRAFT HANGARS
AFM 88-4	DATA PROCESSING FAC. DESIGN AND CONST.
AF ETL 89-3	FIRE PROTECTION CRITERIA FOR ELECTRONIC

Typed Name and Signature of the
Licensed Architect/Engineer of Record
Professional Seal of the Licensed Architect/Engineer of Record

3.9.2 ATTACHMENT B

ADA ARCHITECTURAL DESIGN CHECKLIST

Project Name: _____

Project Location: _____

Design Phase: _____

ITEM

INCORP N/A

LATER

NO.

1. Established with the Base/owner of the facility the requirements for handicap accessibility. _____
2. Received a waiver for no handicap accessibility requirements on the facility. _____
3. Facility is designed utilizing:

New Construction Criteria	_____	_____	_____
Building Alteration Criteria	_____	_____	_____
Historic Building Preservation Criteria:	_____	_____	_____
4. Accessible Route (egress/corridors/halls/aisles).

- Provided minimum fire egress routes.	_____	_____	_____
- Provided minimum site accessible routes.	_____	_____	_____
- Provided proper clearance widths.	_____	_____	_____
- Provided proper floor level changes.	_____	_____	_____
- Provided proper floor materials.	_____	_____	_____
- Provided protection from protruding objects.	_____	_____	_____
5. Ramps:

- Maximum slopes less than 1:12	_____	_____	_____
- Maximum run less than 30 feet for 1:12 slopes	_____	_____	_____
- 40 feet for 1:16 slopes	_____	_____	_____
- Minimum clear width exceeds 914mm.	_____	_____	_____
- Provided proper edge protection.	_____	_____	_____
- Provided handrails of proper configuration and diameter.	_____	_____	_____
- Provided proper handrail extensions at top and bottom of ramp.	_____	_____	_____
- Provided handrails at proper mounting heights.	_____	_____	_____
- Provided proper landings.	_____	_____	_____
- Provided proper cross slope on ramp surface.	_____	_____	_____

ITEM
 INCORP
 N/A
 LATER
 NO.

6. Stairs:

- Protected the space below stairs from access by the blind. _____
- Provided handrails of proper configuration and diameter. _____
- Provided proper handrail extensions at top and bottom of stairs. _____
- Provided handrails at proper mounting heights. _____
- Provided treads greater than 280mm in width. _____
- Provided Proper nosings. _____

7. Elevators:

- Provided buttons and lanterns at the proper mounting height. _____
- Provided Braille characters. _____
- Provided proper door widths. _____
- Provided proper clearance inside elevator car. _____

8. Doors And Hardware:

- Provided proper door widths. _____
- Provided proper clearance on both sides of jambs. _____
- Entrance vestibules provided with adequate clearances. _____
- Provided levers on locksets and exit hardware. _____
- Provided closers with mechanical adjustments. _____
- Provided accessible thresholds. _____
- Provided protection plates on doors heavily used by wheel chair bound people. _____

ITEM INCORP NO.	N/A	LATER
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- | | | | | |
|-----|------------------------------------------------------------------------------------|-------|-------|-------|
| 9. | Toilet Facilities: | | | |
| | - Provided proper floor clearance through out the toilet rooms. | _____ | _____ | _____ |
| | - Provided minimum number of required accessible fixtures. | _____ | _____ | _____ |
| | - Provided accessible toilet stalls. | _____ | _____ | _____ |
| | - Provided stall doors with correct direction of swing. | _____ | _____ | _____ |
| | - Provided accessible water closets. | _____ | _____ | _____ |
| | - Provided grab bars at accessible water closets. | _____ | _____ | _____ |
| | - Provided grab bars with correct configuration and dimension. | _____ | _____ | _____ |
| | - Provided accessible sinks/lavatories. | _____ | _____ | _____ |
| | - Provided accessible urinals. | _____ | _____ | _____ |
| | - Provided accessible water coolers and fountains. | _____ | _____ | _____ |
| | - Provided accessible mirrors. | _____ | _____ | _____ |
| | - Provided accessible toilet accessories at required locations. | _____ | _____ | _____ |
| | - Provided all fixtures and accessories at proper mounting heights and clearances. | _____ | _____ | _____ |
| | - Provided insulated or protected exposed pipes at lavatories. | _____ | _____ | _____ |
| 10. | Shower/Tub Facilities: | | | |
| | - Provided the minimum number of accessible showers/tubs. | _____ | _____ | _____ |
| | - Provided showers/tubs with grab bars. | _____ | _____ | _____ |
| | - Provided showers/tubs with seats as required. | _____ | _____ | _____ |
| | - Provided controls mounted at the proper height and location. | _____ | _____ | _____ |
| | - Provided proper clearances and dimensions in showers/tubs. | _____ | _____ | _____ |
| | - Provided proper floor clearance through out shower/tubs rooms. | _____ | _____ | _____ |
| | - Provided doors with correct direction of swing and clearance. | _____ | _____ | _____ |

ITEM NO.		INCORP	N/A	LATER
11.	Storage:			
	- Provided accessible cabinets, shelves, closets, and drawers as required.	_____	_____	_____
	- Provided proper clearance, mounting heights, and reach provisions.	_____	_____	_____
12.	Telephones and Vending:			
	- Provided the minimum number of required accessible public telephones.	_____	_____	_____
	- Provided proper floor clearance around telephone.	_____	_____	_____
	- Phone and controls mounted at proper heights and within reach.	_____	_____	_____
	- Provided vending machines on an accessible route.	_____	_____	_____
	- Provided vending machines with accessible clearances and protruding object safe guards.	_____	_____	_____
13.	Fixed Or Built-in Seating And Tables:			
	- Provided the minimum number of accommodations for accessibility in areas which required fixed furniture.	_____	_____	_____
	- Provided proper floor clearance around furniture.	_____	_____	_____
	- Provide proper knee space at tables.	_____	_____	_____
	- Provided tables and counters with proper top surface heights.	_____	_____	_____
14.	Assembly Areas:			
	- Provided the minimum number of accessible seating spaces.	_____	_____	_____
	- Provided seating which is easily accessible to emergency egress.	_____	_____	_____
	- Provided companion seating.	_____	_____	_____
	- Integrated and dispersed accessible seating with the rest of the seating.	_____	_____	_____
	- Provided accessible dressing rooms.	_____	_____	_____
	- Provided level floor surface at accessible seat locations.	_____	_____	_____
	- Provided clear ground or floor space at accessible seat locations	_____	_____	_____
	- Provided access to all performing areas and associated spaces.	_____	_____	_____

ITEM NO.		INCORP	N/A	LATER
15.	Dining Halls And Cafeterias:			
	- Provided the minimum number of accessible dining spaces.	_____	_____	_____
	- Provided accessible counters and bars.	_____	_____	_____
	- Provided accessible aisles between tables or walls.	_____	_____	_____
	- Provided clear floor space at accessible dining locations.	_____	_____	_____
	- Provided accessible food service lines meeting minimum clearances and reaches.	_____	_____	_____
	- Provided accessible tableware and condiment areas.	_____	_____	_____
	- Provided raised speaker platform with protected edges.	_____	_____	_____
16.	Medical Care Facilities:			
	- At least 10% of the general patient rooms are accessible.	_____	_____	_____
	- Provided the number of accessible patient rooms as required for specialized treatment, long term care, or alterations of existing patient rooms.	_____	_____	_____
	- Provided at least one accessible entrance with weather protecting canopy or roof overhang.	_____	_____	_____
	- Provided minimum clearances within the patient rooms and around the beds.	_____	_____	_____
	- Provided accessible patient toilet/bath rooms.	_____	_____	_____
17.	Business And Mercantile:			
	- Provided at least one accessible sales counter, services counter, teller, information window, etc.	_____	_____	_____
	- Security bollards when provided, do not prevent access or egress to people in wheel chairs.	_____	_____	_____
18.	Libraries:			
	- Provided access to all reading and stack areas, reference rooms, reserve areas, and special facilities or collections.	_____	_____	_____
	- Provided at least 5% or a minimum of one of each element or fixed seating, tables, or study carrels as accessible	_____	_____	_____
	- Provided at least one lane of check out areas as accessible.	_____	_____	_____
	- Provided adequate clearance and reach distances at card catalogs and magazine displays.	_____	_____	_____
	- Provide stacks with minimum clear aisle width.	_____	_____	_____

ITEM NO.		INCORP	N/A	LATER
19.	Temporary Lodging:			
	- All common and public use areas are accessible.	_____	_____	_____
	- Provided accessible units, sleeping rooms, and suites.	_____	_____	_____
	- Provided sleeping accommodations for persons with hearing impairments.	_____	_____	_____
	- Provided a dispersed class and a range of room options.	_____	_____	_____
	- Provided accessible rooms in ADAL projects.	_____	_____	_____
	- Provided an accessible route to accessible sleeping rooms.	_____	_____	_____
	- Provided accessible clearance widths within sleeping rooms and around beds.	_____	_____	_____
	- Provided accessible doors within accessible sleeping rooms.	_____	_____	_____
	- Provided accessible fixed or built-in furniture and storage units.	_____	_____	_____
	- Provided accessible controls throughout accessible units.	_____	_____	_____
	- Where provided as part of an accessible unit each of the following were provided as accessible: living area, dining area, at least one sleeping area, patio/terrace, balcony, toilet/bath, and carport/garage/parking.	_____	_____	_____
	- Where provided as apart of an accessible unit, the kitchen, kitchenettes, wet bars, or similar amenities were also provided with accessible features.	_____	_____	_____
	- Provided visual alarms, notification devices, and accessible telephones.	_____	_____	_____
	- Provided accessible doors and doorways designed to allow passage into and within all sleeping units or other covered units.	_____	_____	_____

20. Transportation Facilities:

(This section covers Air, Rail, and Bus public transportation facilities. See Section 10 of the ADA Guide for specific requirements for these facilities)

3.9.3 ATTACHMENT C

MECHANICAL ROOM SIZE FORM

**NOTE: Mechanical Systems Design Documents and Guides -
Mechanical Room Size Form**

**At the final design stage, the mechanical designer shall
fill out this Mechanical Room Size Form and include it in
the final design calculations.**

The information submitted on this sheet shall be placed in a data base for future use on similar DoD, COE project. (The data base shall be used to help determine appropriate mechanical room sizes). Include this sheet in the final design calculations.

Project:

Location:

Engineer:

Gross floor area of building:

Gross square footage includes (the entire building) stairs, corridors, etc.

Floor area of mechanical room:

Percent of gross building area is the mechanical room size:

Type of facility:

Sources of energy (E, G, S):

Mechanical equipment:

List of equipment outside the mechanical room and location:

Is the mechanical room too small?

Does the User think the mech room is too small? (Y, N, Don't know)

Additional remarks:

Abbreviations:

AC - air compressor

AHU - air handling unit

B - boiler

CU - air cooled condensing unit

DF - direct fired

DX - direct expansion chilled water heat exchanger

E - electric
FC - fan coil unit
FP - fire protection
G - natural gas or propane
HX - heat exchanger
LC - liquid chiller
MUA - make up air unit
UH - unit heater
ST - domestic hot water storage tank
S - steam

-- End of Section --

04/2001

AMENDMENT NO. 0010

PART 1 GENERAL

1.1 REFERENCES

MILITARY SPECIFICATIONS (MIL)

TRI-SERVICE CADD/GIS TECHNOLOGY CENTER (TSC)

TSC-01 A/E/C CADD Standard Manual (Current Release as of Contract Award date)

U.S. ARMY CORPS OF ENGINEERS (COE)

COE-02 ARCHITECTURAL AND ENGINEERING INSTRUCTIONS
MANUAL (SWD-AEIM), Southwestern Division
(Current issue as of Contract Award date)

1.2 PAYMENT

Contract closeout activities such as, but not limited to, operation and maintenance manuals, record drawings, warranty requirements, equipment warranty identification tags, and inventories, real property maintenance records, payrolls, and shop drawing submittals, are subsidiary activities of the contract work; separate payment will not be made for any activity unless otherwise specified. Final contract payment will not be made until completion and approval of all contract closeout activities.

1.3 HVAC TESTING

The HVAC Testing that the Contractor schedules after substantial completion pursuant to paragraph entitled "Testing of Heating and Air-Conditioning Systems" of Section 01000 CONSTRUCTION SCHEDULE has a value to the Government of 10 percent of the value of the equipment to be tested. The Contractor shall reserve that amount to be paid on any equipment that will require testing after substantial completion pursuant to the above referenced specification paragraph.

1.4 OPERATION AND MAINTENANCE MANUALS

The Contractor shall be responsible for the preparation, coordination, execution and submittal of all operation and maintenance manuals (O & M Manuals), including spare parts lists, special tools, inventories of equipment manuals and maintenance instructions, and shall conduct all

training for operating and service personnel. Operation and maintenance manuals shall cover all system installations provided in this contract and shall be in sufficient detail to facilitate normal maintenance and troubleshooting by persons with minimum experience with the installed equipment.

1.4.1 Submittal Requirements

All of the above listed items required in the technical specifications shall be submitted to the Contracting Officer not less than 90 days prior to the scheduled contract completion date. Fully developed and approved operation and maintenance manuals shall be provided 30 days prior to scheduling training for operating and service personnel. The Contractor shall coordinate the content of each instruction period required in the technical specifications with the Contracting Officer's Representative prior to the actual start of the training period.

1.4.1.1 Video taping of Training for Operating and Service Personnel

Each instruction or training period as discussed above, shall be video taped in VHS FORMAT by the Contractor. The taping shall include the entire session(s). The original video tape(s) shall be labeled and turned over to the Contracting Officer. The video camera and tapes utilized by the Contractor, shall be of a quality to enable clear and understandable playbacks of the recorded events.

1.4.1.2 Draft O & M Manuals

On those systems where complete and comprehensive operation and maintenance manuals cannot be fully developed until the system(s) is checked, tested, and/or balanced, and the checking, testing, and/or balancing has not been done when submittals are required, a proposed draft of those system manual(s) shall be submitted. 10 percent of the each subsequent scheduled progress payment will be retained until the complete O & M Manuals submittal package have been submitted and approved. Submit fully developed O & M Manuals of the drafts for approval after the systems have been checked, tested, and/or balanced.

1.4.1.3 Commencement of Warranty of Construction

Failure to submit all specified O & M manuals, spare parts listings, spare parts, special tools, inventories of installed property, and training video tapes in a timely manner will be considered as delaying substantial completion of the work. Commencement of warranty under the Contract Clause WARRANTY OF CONSTRUCTION will not occur until all these items are delivered and approved by the Contracting Officer, but not earlier than the date of final acceptance of the work by the Government. When the O & M Manuals with drafts are approved they will not constitute a reason for delaying the start of the warranty period.

1.4.2 Government Possession of Work

The Government may take possession of any completed or partially completed work as provided for under Contract Clause entitled "USE AND POSSESSION PRIOR TO COMPLETION." If the installed equipment and/or systems thereto, have not been accepted by the Government due to the Contractor's failure to submit the above specified items, the Contractor shall operate and maintain such plant or system at no additional cost to the Government until such time that the specified items have been received, approved and any

subsequent testing, check-out and/or training has been completed.

1.5 PREPARATION AND SUBMISSION OF OPERATION AND MAINTENANCE MANUALS

This paragraph establishes general requirements for the preparation and submission of equipment operating, maintenance, and repair manuals as called for in the various sections of the specifications. Specific instruction(s) relating to a particular system or piece of equipment shall be incorporated into the manuals in accordance with the applicable technical specification.

1.5.1 General Requirements

Furnish operations and maintenance manuals on CD-ROM disk along with a single hard copy. Documents on the CD-ROM disk shall be in portable document format (.pdf); all printed and graphic documents, drawings, and illustrations shall be legible. Hard copy requirements are specified below.

1.5.1.1 Hard Cover Binders

The manuals shall be permanently bound and have a hard cover. The following identification shall be inscribed on the cover: the words "EQUIPMENT OPERATING, MAINTENANCE, AND REPAIR MANUAL:" and the name, building number, location, and indication of utility or systems covered. Manuals shall be approximately 8-1/2 by 11 inches with large sheets folded in and capable of being easily pulled out for reference. All manuals for a single facility must be similar in appearance.

1.5.1.2 Warning Page

A warning page shall be provided to warn of potential dangers (if they exist), such as high voltage, toxic chemicals, flammable liquids, explosive materials, carcinogens, or high pressures. The warning page shall be placed inside the front cover, in front of the title page.

1.5.1.3 Title Page

The title page shall show the name of the preparing firm (designer or contractor) and the date of publication.

1.5.1.4 Table of Contents

Provide in accordance with standard commercial practice.

1.5.2 Equipment Operating, Maintenance, and Repair Manuals

1.5.2.1 General

Separate manuals shall be provided for each utility system as defined hereinafter. Manuals shall be provided in the number of copies specified in the applicable technical section. Manuals shall include, in separate sections, the following information for each item of equipment:

a. Performance sheets and graphs showing capacity data, efficiencies, electrical characteristics, pressure drops, and flow rates. Marked-up catalogs or catalog pages do not satisfy this requirement. Performance information shall be presented as concisely as possible and contain only data pertaining to equipment actually installed.

- b. Catalog cuts showing application information.
- c. Installation information showing minimum acceptable requirements.
- d. Operation and maintenance requirements. Include adequate illustrative material to identify and locate operating controls, indicating devices and locations of areas or items requiring maintenance.
 - (1) Describe, in detail, starting and stopping procedures for components, adjustments required to obtain optimum equipment performance, and corrective actions for malfunctions.
 - (2) Maintenance instructions describing the nature and frequency of routine maintenance and procedures to be followed. Indicate any special tools, materials, and test equipment that may be required.
- e. Repair information including diagrams and schematics, guidance for diagnosing problems, and detailed instructions for making repairs. Provide troubleshooting information that includes a statement of the indication or symptom of trouble and the sequential instructions necessary. Include test hookups to determine the cause, special tools and test equipment, and methods for returning the equipment to operating conditions. Information may be in chart form or in tabular format with appropriate headings.
- f. Parts lists and names and addresses of closest parts supply agencies.
- g. Names and addresses of local manufacturers representatives.

1.5.2.2 Facility Heating Systems

Information shall be provided on the following equipment: Boilers, water treatment, chemical feed pumps and tanks, converters, heat exchangers, pumps, unit heaters, fin-tube radiation, air handling units (both heating only and heating and cooling), and valves (associated with heating systems).

1.5.2.3 Air-Conditioning Systems

Provide information on chillers, packaged air-conditioning equipment, towers, water treatment, chemical feed pumps and tanks, air-cooled condensers, pumps, compressors, air handling units, and valves (associated with air-conditioning systems).

1.5.2.4 Temperature Control and HVAC Distribution Systems

- a. Provide the information described for the following equipment:

Valves, fans, air handling units, pumps, boilers, converters, and heat exchangers, chillers, water cooled condensers, cooling towers, and fin-tube radiation.

- b. Provide all information described for the following equipment:

Control air compressors, control components (sensors, controllers, adapters, and actuators), and flow measuring equipment.

1.5.2.5 Exterior Electrical Systems

Information shall be provided on the following equipment: Power

transformers, relays, reclosers, breakers, and capacitor bank controls.

1.5.2.6 Interior Electrical Systems

Information shall be provided on the following equipment: Relays, motor control centers, switchgear, solid state circuit breakers, motor controller, and EPS lighting systems, control systems (wire diagrams and troubleshooting flow chart), and special grounding systems.

1.5.2.7 Energy Management and Control System

The maintenance manual shall include descriptions of maintenance for all equipment, including inspection, periodic preventative maintenance, fault diagnosis, and repair or replacement of defective components.

1.5.2.8 Domestic Water Systems

The identified information shall be provided on the following equipment: Tanks, unit process equipment, pumps, motors, control and monitoring instrumentation, laboratory test equipment, chemical feeders, valves, switching gear, and automatic controls.

1.5.2.9 Fire Protection Systems

Information shall be provided on the following equipment: Alarm valves, manual valves, regulators, foam and gas storage tanks, piping materials, sprinkler heads, nozzles, pumps, and pump drivers.

1.5.2.10 Fire Detection Systems

The maintenance manual shall include description of maintenance for all equipment, including inspection, periodic preventive maintenance, fault diagnosis, and repair or replacement of defective components.

1.5.2.11 Plumbing Systems

Information shall be provided on the following equipment: Water heaters, valves, pressure regulators, backflow preventors, piping materials, and plumbing fixtures.

1.5.2.12 Liquid Fuels Systems

Information shall be provided on the following equipment: Tanks, automatic valves, manual valves, filter separators, pumps, mechanical loading arms, nozzles, meters, electronic controls, electrical switch gear, and fluidic controls.

1.5.2.13 Cathodic Protection Systems

Information shall be provided on the following material and equipment: Rectifiers, meters, anodes, anode backfill, anode lead wire, insulation material and wire size, automatic controls (if any), rheostats, switches, fuses and circuit breakers, type and size of rectifying elements, type of oil in oil-immersed rectifiers, and rating of shunts.

1.5.2.14 Generator Installations

Information shall be provided on the following equipment: Generator sets, automatic transfer panels, governors, exciters, regulators, starting

systems, switchgear, and protective devices.

1.5.2.15 Miscellaneous Systems

Information shall be provided on the following: Communication and ADP systems, security and intrusion alarm, elevators, material handling, active solar, photovoltaic, and other similar type special systems not otherwise specified.

1.6 RECORD DRAWINGS

Record drawings shall be a record of the construction as installed and completed by the Contractor. They are a record of all deviations, modifications, or changes from contract set of drawings (the accepted 100% design drawings), however minor, which were incorporated in the work. They include all the information shown on the contract set of drawings, any Contractor-original drawings, all additional work not appearing on the contract drawings, and all changes which are made after final inspection of the contract work.

1.6.1 Contractor-Original Record Drawings

Contractor-original record drawings are those drawings drawn by the Contractor, after acceptance of the 100% design documents and the start of construction, to further explain the Contract documents such as subcontractor submittals for fire protection/detection, communication, and other systems, and accepted Contractor's solutions to problems. Submit these drawings as full-size reproducible sheets and CADD files. CADD files shall conform to the Working CADD file requirements specified in paragraph "Final Record Drawings."

1.6.2 Preliminary Record Drawings

The Contractor shall mark up both a reproducible set and a set of prints to show as-built conditions. These two sets, hereafter called preliminary record drawings, or singly, reproducibles or prints, shall be kept current and available on the jobsite at all times, except as noted below. For drawings contained within the Specifications, the Contractor shall mark up copies of these drawings to show as-built conditions; these copies will be considered the preliminary record drawings and shall be kept current and available on the jobsite at all times, except as noted below. A member of the Contractor's Quality Control Organization shall be assigned responsibility for the maintenance and currency of the preliminary record drawings. This assignment and any reassignment of duties concerning the maintenance of the record drawings shall be promptly reported to the Contracting Officer's representative for approval. All changes from the contract drawings which are made in the work or additional information which might be uncovered in the course of construction, including uncharted utilities, shall be accurately and neatly recorded as they occur by means of details and notes. All changes and/or required additions to the preliminary record drawings shall be clearly identified in a contrasting color and which is compatible with reproduction of the preliminary record drawings. Preliminary record drawings shall be updated by Friday of each week. During periods when the reproducibles are being copied and are therefore not available at the jobsite, the Contractor shall continue posting all required data to the prints. The Contractor shall minimize the time that the reproducibles are away from the jobsite and shall update them with all as-built data immediately upon their return. The preliminary record drawings will be jointly inspected for accuracy and completeness by

the Contracting Officer's representative and the assigned representative of the Contractor's Quality Control Organization prior to submission of each monthly pay estimate. See paragraph, "Withholding for Preliminary Record Drawings." The record drawings shall show the following information, but not be limited thereto:

a. The location and description of utility lines or other installation of any kind or description known to or found to exist within the construction area. The location of exterior utilities includes actual measured horizontal distances from utilities to permanent facilities/features. These measurements shall be within an accuracy range of 6 inches and shall be shown at sufficient points to permit easy location of utilities for future maintenance purposes. Measurements shall be shown for all change of direction points and all surface or underground components such as valves, manholes, drop inlets, cleanouts, meter, etc. The general depth range of each underground utility line shall be shown (i.e., 3 to 4 feet in depth). The description of exterior utilities includes the actual quantity, size, and material of utility lines.

b. The location and size of all uncharted existing utilities encountered.

c. The location and dimensions of any changes within the building or structure.

d. Correct grade or alinement of roads, structures or utilities if any changes were made from contract drawings.

e. Correct elevations if changes were made in site grading.

f. Changes in details of design or additional information obtained from working drawings specified to be prepared and/or furnished by the Contractor including but not limited to fabrication, erection, installation plans and placing details, pipe sizes, insulation material, dimensions of equipment foundations, etc.

g. The topography and grades of all drainage installed or affected as a part of the project construction.

h. Options

Where contract drawings or specifications allow options, only the option selected for construction shall be shown on the record drawings.

1.6.2.1 Blue Line or Black Line Prints

Blue line or black line prints shall be full size. All blue or black line prints shall exhibit good readable print with clear, sharp, dark lines, and shall not be smeared, faded, double imaged, or have torn or ragged edges.

1.6.2.2 Prefinal Inspection For Each Item of Work

As part of the prefinal inspection for each item of work, the preliminary record drawings will be reviewed. They shall comply with this specification prior to scheduling the final inspection, and/or prior to substantial completion of the item of work.

1.6.2.3 Preliminary Record Drawing Final Submittal

Prior to scheduling the final acceptance inspection of the last or only bid schedule item of work, the preliminary record drawings shall be completed and delivered to the Contracting Officer's Representative for review and acceptance. If upon review, the drawings are found to contain errors and/or omissions, they will be returned to the Contractor for corrections. Failure of the Contractor to make timely delivery of the preliminary record drawings on any or all items of work will be cause for the Government to delay substantial completion and to assess liquidated damages in accordance with the terms and conditions of the contract.

1.6.2.4 Withholding for Preliminary Record Drawings

Failure by the Contractor to maintain current and satisfactory preliminary record drawings in accordance with these requirements will result in withholding from progress payments 10 percent of the progress payment amount until such time as the record drawings are brought into compliance. This withheld amount will be indicated on monthly payment estimates until the Contractor has fulfilled these contract requirements.

1.6.2.5 Final Inspection

For each interim item of work, furnish a copy of the preliminary record drawings for that item, which the Contractor has reproduced from the approved preliminary record drawing reproducibles, to the Contracting Officer's representative at the time of final inspection for that item. At the time of final inspection on the last or only item of work, the Contractor shall deliver a copy of the complete set of the approved preliminary record drawings to the Contracting Officer's Representative.

1.6.3 Final Record Drawings

Upon approval of the preliminary record drawings, the Contracting Officer will return the approved preliminary record drawing prints back to the Contractor. The Contractor will then modify the CADD files as may be necessary to correctly show all the features of the project as it was constructed by bringing the contract set into agreement with the preliminary record drawings, including adding additional drawings and CADD files as may be necessary. The Contractor shall furnish the as-built drawings in the same file format as the Working CADD files. These CADD files are part of the permanent records of this project and the Contractor shall be responsible for the protection and safety thereof until submitted to the Contracting Officer. Drawings, tracings, or CADD files damaged or lost by the Contractor shall be satisfactorily replaced by the Contractor at the Contractor's expense. CADD files will be audited by the Contracting Officer and for accuracy and conformance to the above specified drafting and CADD standards.

1.6.3.1 Drafting

Only personnel proficient in the preparation of engineering drawings and CADD shall be employed to modify the original contract drawings, prepare additional new drawings, and modify the CADD files. All modifications and new drawings shall conform to applicable requirements specified in the paragraph "CADD Standards." The Contractor shall ensure that all delivered CADD digital files and data (e.g., sheet files, model files, cell/block libraries) are compatible with the Government's target CADD system and operating system, and adhere to the standards and requirements specified. The term "compatible" means that data is in native digital format i.e., .dgn (MicroStation) or .dwg (AutoCAD). It is the responsibility of the

Contractor to ensure this level of compatibility.

1.6.3.2 CADD Standards

CADD Standards are specified in Section 01016 DESIGN DOCUMENT REQUIREMENTS. .

The Contractor shall submit a written request for approval of any deviations from the Government's established CADD standards. Deviations will not be permitted unless prior written approval of such deviations has been received from the Government.

1.6.3.3 Final Revisions

When final revisions have been completed, place the words "REVISED RECORD DRAWING," in letters at least 3/16 inch high, and the date of completion in the revision block above the latest existing revision notation on each drawing CADD file.

1.6.3.4 Border Sheets

The border sheet to be used for any new record drawings shall be the same as used on the original drawings.

1.6.3.5 Copies of the Final Record Drawings

Blue line or black line prints shall be full size. All blue or black line prints shall exhibit good readable print with clear, sharp, dark lines, and shall not be smeared, faded, double imaged, or have torn or ragged edges.

1.6.3.6 Submittal Requirements

The Contractor shall submit to the Contracting Officer the final record drawings, consisting of one set of full size blue line or black line prints, one full size vellum reproducible set, and two sets of corrected CADD files on CD-ROM disks; verification that the CADD files have been loaded and work on the designated computer systems and are error- and virus-free; the approved preliminary blue lines; and all required reproduced items. All paper prints, reproducible drawings, and CADD files will become the property of the Government.

a. Sustainable Project Rating Tool (SPiRiT)

Submit a final update of the Contractor's Proposal's Sustainable Project Rating Tool (SPiRiT) sheets, indicating the achievement of the listed elements and the achievement level of the various goals listed in Volume II DESIGN AND PERFORMANCE REQUIREMENTS, PERFORMANCE REQUIREMENTS Chapter 111 FACILITY PERFORMANCE, paragraph "Environmental Responsible Design."
Provide certification of achievement of the specified rating. (AM#10)

1.6.4 Post-Record Drawing Work

In event the Contractor accomplishes additional work which changes the as-built conditions of the facility after submission of the record drawings, the Contractor shall furnish revised and/or additional drawings (hard copy and CADD files), as required to depict as-built conditions. The requirements for these additional drawings, including CADD files, will be the same as for the record drawings included in the original submission.

1.6.5 Payment for Final Record Drawings

The amount listed for Final Record Drawings in the Bidding Schedule will be paid to the Contractor upon the Contracting Officer's acceptance of the completed record drawings.

1.7 ADDITIONAL WARRANTY REQUIREMENTS

The warranty requirements specified in this paragraph are in addition to those specified in the Contract Clause WARRANTY OF CONSTRUCTION in Section 00700 CONTRACT CLAUSES.

1.7.1 Performance Bond

It is understood that the Contractor's Performance Bond will remain effective throughout the life of all warranties and warranty extensions. This paragraph is applicable to the Contractor's Warranty of Construction only and does not apply to manufacturers' warranties on equipment, roofing, and other products.

(a) In the event the Contractor or the Contractor's designated representative fails to commence and diligently pursue any work required under the Warranty of Construction Paragraph within a reasonable time after receipt of written notification pursuant to the requirements thereof, the Contracting Officer shall have a right to demand that said work be performed under the Performance Bond by making written notice on the surety. If the surety fails or refuses to perform the obligation it assumed under the Performance Bond, the Contracting Officer shall have the work performed by others, and after completion of the work, shall make demand for reimbursement of any or all expenses incurred by the Government while performing the work, including, but not limited to administrative expenses.

(b) Warranty repair work which arises to threaten the health or safety of personnel, the physical safety of property or equipment, or which impairs operations, habitability of living spaces, etc., will be handled by the Contractor on an immediate basis as directed verbally by the Contracting Officer or the Contracting Officer's authorized representative.

Written verification will follow verbal instructions. Failure of the Contractor to respond as verbally directed will be cause for the Contracting Officer or the Contracting Officer's authorized representative to have the warranty repair work performed by others and to proceed against the Contractor as outlined in the paragraph (a) above.

1.7.2 Pre-Warranty Conference

Prior to contract completion and at a time designated by the Contracting Officer or Contracting Officer's authorized representative, the Contractor shall meet with the Contracting Officer to develop a mutual understanding with respect to the requirements of Contract Clause WARRANTY OF CONSTRUCTION. Communication procedures for Contractor notification of warranty defects, priorities with respect to the type of defect, reasonable time required for Contractor response, and other details deemed necessary by the Contracting Officer or Contracting Officer's authorized representative for the execution of the construction warranty shall be established/reviewed at this meeting.

In connection with these requirements and at the time of the Contractor's quality control completion inspection, the Contractor will furnish the name, telephone number and address of a licensed and bonded company which is authorized to initiate and pursue warranty work action on behalf of the

Contractor. This single point of contact will be located within the local service area of the warrantied construction, will be continuously available, and will be responsive to Government inquiry on warranty work action and status. This requirement does not relieve the Contractor of any of Contractor's responsibilities in connection with Contract Clause WARRANTY OF CONSTRUCTION.

1.7.3 Equipment Warranty Identification Tags

The Contractor shall provide warranty identification tags on all equipment installed under this contract. Tags and installation shall be in accordance with the requirements of Paragraph: EQUIPMENT WARRANTY IDENTIFICATION TAGS.

1.7.4 Contractor's Response to Construction Warranty Service Requirements

Following oral or written notification by the Contracting Officer, the Contractor shall respond to construction warranty service requirements in accordance with the "Construction Warranty Service Priority List" and the three categories of priorities listed below. The Contractor shall submit a report on any warranty item that has been repaired during the warranty period. The report shall include the cause of the problem, date reported, corrective action taken, and when the repair was completed. If the Contractor does not perform the construction warranty within the timeframes specified, the Government will perform the work and backcharge the construction warranty payment item established.

a. First Priority Code 1. Perform onsite inspection to evaluate situation, and determine course of action within 4 hours, initiate work within 6 hours and work continuously to completion or relief.

b. Second Priority Code 2. Perform onsite inspection to evaluate situation, and determine course of action within 8 hours, initiate work within 24 hours and work continuously to completion or relief.

c. Third Priority Code 3. All other work to be initiated within 3 work days and work continuously to completion or relief.

d. The "Construction Warranty Service Priority List" is as follows:

Code 1-Air Conditioning Systems

- (1) Recreational support.
- (2) Air conditioning leak in part of building, if causing damage.
- (3) Air conditioning system not cooling properly.

Code 1-Doors

- (1) Overhead doors not operational, causing a security, fire, or safety problem.
- (2) Interior, exterior personnel doors or hardware, not functioning properly, causing a security, fire, or safety problem.

Code 3-Doors

- (1) Overhead doors not operational.
- (2) Interior/exterior personnel doors or hardware not functioning properly.

Code 1-Electrical

- (1) Power failure (entire area or any building operational after 1600 hours).

- (2) Security lights
- (3) Smoke detectors

Code 2-Electrical

- (1) Power failure (no power to a room or part of building).
- (2) Receptacle and lights (in a room or part of building).

Code 3-Electrical

Street lights.

Code 1-Gas

- (1) Leaks and breaks.
- (2) No gas to family housing unit or cantonment area.

Code 1-Heat

- (1). Area power failure affecting heat.
- (2). Heater in unit not working.

Code 2-Kitchen Equipment

- (1) Dishwasher not operating properly.
- (2) All other equipment hampering preparation of a meal.

Code 1-Plumbing

- (1) Hot water heater failure.
- (2) Leaking water supply pipes.

Code 2-Plumbing

- (1) Flush valves not operating properly.
- (2) Fixture drain, supply line to commode, or any water pipe leaking.
- (3) Commode leaking at base.

Code 3 -Plumbing

Leaky faucets.

Code 3-Interior

- (1) Floors damaged.
- (2) Paint chipping or peeling.
- (3) Casework.

Code 1-Roof Leaks

Temporary repairs will be made where major damage to property is occurring.

Code 2-Roof Leaks

Where major damage to property is not occurring, check for location of leak during rain and complete repairs on a Code 2 basis.

Code 2-Water (Exterior)

No water to facility.

Code 2-Water (Hot)

No hot water in portion of building listed.

Code 3-All other work not listed above.

1.8 EQUIPMENT WARRANTY IDENTIFICATION TAGS

1.8.1 General Requirements

The Contractor shall provide warranty identification tags on all Contractor and Government furnished equipment which he has installed.

1.8.1.1 Tag Description and Installation

The tags shall be similar in format and size to the exhibits provided by this specification, they shall be suitable for interior and exterior locations, resistant to solvents, abrasion, and to fading caused by sunlight, precipitation, etc. These tags shall have a permanent pressure-sensitive adhesive back, and they shall be installed in a position that is easily (or most easily) noticeable. Contractor furnished equipment that has differing warranties on its components will have each component tagged.

1.8.1.2 Sample Tags

Sample tags shall be submitted to the Contracting Officer's Authorized Representative for review and approval. These tags shall be filled out representative of how the Contractor will complete all other tags.

1.8.1.3 Tags for Warranted Equipment

The tag for this equipment shall be similar to the following. Exact format and size will be as approved by the Contracting Officer's Authorized Representative. The Contractor warranty expires (warranty expiration date) and the final manufacturer's warranty expiration dates will be determined as specified by the Paragraph "WARRANTY OF CONSTRUCTION."

EQUIPMENT WARRANTY CONTRACTOR FURNISHED EQUIPMENT	
MFG_____	MODEL NO._____
SERIAL NO._____	
CONTRACT NO._____	
CONTRACTOR NAME_____	
CONTRACTOR WARRANTY EXPIRES_____	
MFG WARRANTY(IES) EXPIRE_____	

EQUIPMENT WARRANTY GOVERNMENT FURNISHED EQUIPMENT	
MFG_____	MODEL NO._____
SERIAL NO._____	
CONTRACT NO._____	
DATE EQUIP PLACED IN SERVICE_____	
MFG WARRANTY(IES) EXPIRE_____	

1.8.1.4 Duplicate Information

If the manufacturer's name (MFG), model number and serial number are on the manufacturer's equipment data plate and this data plate is easily found and fully legible, this information need not be duplicated on the equipment warranty tag.

1.8.2 Execution

The Contractor will complete the required information on each tag and install these tags on the equipment by the time of and as a condition of final acceptance of the equipment. The Contractor will schedule this activity in the Contractor progress reporting system. The final acceptance inspection is scheduled based upon notice from the Contractor, thus if the Contractor is at fault in this inspection being delayed, the Contractor will, at the Contractor's own expense, update the in-service and warranty expiration dates on these tags.

1.8.3 Payment

The work outlined above is a subsidiary portion of the contract work, and has a value to the Government approximating 5% of the value of the Contractor furnished equipment. The Contractor will assign up to that amount, as approved by the Contracting Officer's Authorized Representative.

1.8.4 Equipment Warranty Tag Replacement

Under the terms of this contract, the Contractor's warranty with respect to work repaired or replaced shall run for one year from the date of repair or replacement. Such activity shall include an updated warranty identification tag on the repaired or replaced equipment. The tag shall be furnished and installed by the Contractor, and shall be identical to the original tag, except that the Contractor's warranty expiration date will be one year from the date of acceptance of the repair or replacement.

1.9 INVENTORY OF CONTRACTOR FURNISHED AND INSTALLED EQUIPMENT

A list of equipment or units of equipment that require electrical power or fuel, or may require removal or replacement such as AHUs, fans, air conditioners, compressors, condensers, boiler, thermal exchangers, pumps, cooling towers, tanks, fire hydrants, sinks, water closets, lavatories, urinals, shower stalls, and any other large plumbing fixtures, light fixtures, etc., shall be made and kept up to date as installed. The list shall be reviewed periodically by the Government to insure completeness and accuracy. Partial payment will be withheld for equipment not incorporated in the list. List shall include on each item as applicable: Description, Manufacturer, Model or Catalog No., Serial No., Input (power, voltage, BTU, etc.), Output (power, voltage, BTU, tons, etc.), Size or Capacity (tanks), and net inventory costs; any other data necessary to describe item and shall list all warrantors and warranty periods for each item of equipment. Final list shall be turned over to the Authorized Representative of the Contracting Officer at the time of the Contractor's quality control completion inspection.

1.10 INVENTORY OF GOVERNMENT FURNISHED CONTRACTOR INSTALLED EQUIPMENT (GF/CI)

A list of all GFE shall be developed starting with equipment items listed in Section 01640 GOVERNMENT FURNISHED PROPERTY; and updated as necessary to reflect contract changes. Equipment items will be as defined under inventory of Contractor furnished equipment above and the list shall include, on each item, as applicable, the same information. The final list shall be turned over to the Contracting Officer's Representative, at the time of the Contractor's quality control inspection.

1.11 REAL PROPERTY MAINTENANCE RECORDS

Prepare DD Form 1354, TRANSFER AND ACCEPTANCE OF MILITARY REAL PROPERTY, so that the bases can update their real property maintenance records, in accordance with the applicable bases' DPW or Base Civil Engineers' (BCE) office. This form shall contain as many of the resource code items with cost and quantity data as can be developed from the task order final documents. Obtain a general list of resource codes with cost and quantity data from the applicable bases' DPW or BCE office. This form and a sample of a completed form are attached to the end of this Section. An electronic file of the form, DD1354.frl, for use with Delrina Perform Pro Form Filler, version 16 Jul 1992, is located on the Solicitation CD-ROM disk. Contractor shall prepare the DD1354 using Delrina Perform Pro Form Filler. Contractor shall obtain DPW or BCE approval of a Draft DD1354 not less than 30 days prior to anticipated Task Order completion date. The Final DD 1354 shall be provided at the Final Inspection for Corps of Engineers and DPW or BCE signature.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

-- End of Section --

Volume 4

Functional Requirements - Attachment B

Command Section

Description:

- Command suite is the executive area used on a daily basis to manage and direct the functions of the Joint Readiness Training Center. It is also required to be the strategic command center compatible with the EOC and VTC located in the building.

Anticipate Personnel: 40 13 (AM#10)

General Specifications:

- Lockable glazed double doors, anodized bronze finisher aluminum, with command insignia signage on tempered glass.
- Telephone/data connections at each desk.
- Space will be sized to accommodate the identified function while permitting ease of circulation and ADA requirements.
- Space to be conditioned with heating, cooling, and ventilation.
- Each desk to have one task chair: casters with pneumatic lift, front tilt, and adjustable arm caps.
- All freestanding L shaped reception desks to have 42" high transaction top, return to support computer keyboard tray, monitor, and house built-in CPU space and 2 pedestals – 1:BBF/1:FF.
- All freestanding L shaped desks to have 2 pedestals- 1:BBF/1:FF. Return to support computer keyboard tray, monitor, and CPU unit.
- All freestanding desks to have 2 pedestals, 1:BBF/1:FF. Desk should support keyboard, monitor, and CPU unit.
- All freestanding credenza units to have knee holespace with 2 pedestals – 1:BBF/1:FF. Credenza to support computer keyboard tray, monitor, and CPU unit. All hutch units to provide enclosed storage above, task lights, and tackable area. Hutch to be screw mounted to credenza unit.
- Each designated workstation of any type to have at a minimum 1-2 drawer file cabinet
- Modular systems furniture :
- Acoustic rated panels with nominal width dimensions of 24", 30", 36", 42", & 48". Panels should be no less than 60" in height but can be up to 84" where panels with doors are indicated.
- Electrified Panels are to be 4 circuit system acoustic rated panels with nominal width dimensions of 24", 30", 36", 42", & 48".
- Work surfaces nominal width dimensions should be compatible with panel widths. All work surfaces shall mount end to end on panel brackets. Depth of surfaces shall be 24" except if corner work surfaces are utilized. Thickness of work surfaces is to be no less than 1 1/8".
- Cantilevers, brackets, plates, and connectors to be metal-to-metal connections.

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- Overhead storage units – nominal width dimensions should be compatible with panel widths. Flipper door to be open inside of box, so top of overhead can be used for additional storage. All doors to be keyed alike per workstation.
- Overhead shelves - nominal width dimensions should be compatible with panel widths. All shelf pans to be metal. All side brackets to be minimum 6" height.
- Task lights - Maximum width to overhead unit, switch to front, plug-in to electrified panels.
- Pedestals - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed alike for each workstation
- Pencil drawers - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed alike for each workstation
- Keyboard tray - Solid metal construction, full extension in ball bearing ball suspension. Arm to be adjustable in 3 directions – up & down; in & out; tilt & flat.

Finishes: Same as Garrison Commander Finishes.

- **Floor:** Multi-colored carpeting with at least 4 color yarns in loop construction to hide wear and staining; action back required. 32 oz weight.
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Door frames:** Dark color to match base
- **Walls:** Painted with a light color that can be easily repainted. This color will be the building standard.
- **Ceiling:** Standard lay-in type acoustic ceiling with perforated texture to hide marks and chips, flat profile.

Special Design Features:

Special design detail should be given to the showcase the Commander's various artwork, military awards, and special interest items.

Upgraded finishes will be utilized in this space to project the image of the Commander's rank and status.

Functional elements within the Commander office:

Functional Requirements - Attachment B

- desk, bridge, credenza, hutch, executive chair, small conference table for 4 visitors
- large seating area with sofa, 2 armchairs, tables, and lamps
- accessories to enhance the executive environment
- private toilet, shower, closet, and dressing area with separate entrance / exits
- laminated glass shall be provided in all windows in the command suite.

Functional Requirements - Attachment B

Command Conference Room, Pre-assembly Area, Warrior Wall

Description:

- Conduct staff meetings, command decision briefings, strategic sessions with senior staff, and hosting external presentations with Commander or command staff. These meetings are held at the classified and unclassified levels.
- Located adjacent to the command section and should have finishes and furnishings that reflect this image.

General Specifications:

- **DELETED [AM #0009]**
- Conference Table to seat 15 people. Internal pop-ups with power and LAN connects for notebook computers. Floor outlets for electrical, data and telephone will be required at the conference table for internal pop-ups.
- High back leather chairs for conference table. Perimeter seating for 14 personnel with comfortable chairs.
- Dual podiums with microphones, clock, and control screen to facilitate briefing activities.
- Coffee/hospitality area with sink and service area. Under counter refrigerator required to store drinks and perishable food items. Storage cabinets needed to store accessory items.
- Audio/visual equipment to support state of the art computer generated briefings and video presentations. Computers, amplifiers, speakers, microphones, VCRs, DVDs, switch panels, video controllers, UPS, and other peripheral equipment to control presentation configuration and generate appropriate visual and audio presentations. Design options should consider video cube wall as display medium.
- Video teleconferencing capabilities to electronically interface with other organizations at the classified and unclassified levels. Communication circuits, video cameras, VTC bridges, COMSEC equipment, and computer systems to connect via ISDN or FTS 2000 formats (Add-on room)
- Operator control room or area to configure equipment, load briefings, set-up VTC connections, and operate A/V software.
- Network connections to access special command management information sources.
- Direct TV satellite connection to access C-SPAN and news networks to obtain real time status of critical political and military world events.
- Various lighting configurations to provide the right lighting environment for open sessions, briefings with presentation graphics, video recordings, and VTC sessions.
- Separate HVAC system to maintain comfortable working environment with diffusers to reduce noise.
- Internal and external signage to indicate classification level of the meeting or presentation. Levels include Unclassified, Confidential, Secret, and Top Secret.

Functional Requirements - Attachment B

Signage approach must be in concert with the executive status of the Command Section.

- “615” speaker phone.

Finishes: Same as Garrison Commander Finishes.

- **Floor:** Multi-colored carpeting with at least 4 color yarns in loop construction to hide wear and staining; action back required. 32 oz weight.
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Door frames:** Dark color to match base
- **Walls:** Painted with a light color that can be easily repainted. This color will be the building standard.
- **Ceiling:** Standard lay-in type acoustic ceiling with perforated texture to hide marks and chips, flat profiles.

Special Design Features:

- **Pre-assembly area:** Adjacent to the command conference room will be finished in upgraded finishes: combining textures, woodgrains, and colors to present a "hospitality suite" environment.
- **Warrior Wall:** Will provide an exclusive area for displays of meritorious recognition for leaders and base activities. This alcove will have textural finishes in complimentary colors to the items being displayed. Special adjustable halogen lighting will be required to adequately display this area.
- Laminated glass shall be provided in all windows in the command conference room.
- Provide sound dampening and black-out curtains in the command conference room.
- Accommodations for closed circuit television monitors.
- Custom millwork built in Admin. desks.

Functional Requirements - Attachment B

Protocol

Description:

- Assists Command Section with coordination of military, civilian, and base functions. Coordinates arrangements for VIP and senior civic visitors. They are also available for consultation with staff to develop appropriate protocol details for briefings and meetings. Provide staff to support field functions and hospitality.
- Located adjacent to the Command Section and should have finishes and furnishing that reflect this image.

Anticipate Personnel: 7

General Specifications:

- Telephone/data connections at each desk.
- Space will be sized to accommodate the identified function while permitting ease of circulation and ADA requirements.
- Space to be conditioned with heating, cooling, and ventilation.
- Each desk to have one task chair: casters with pneumatic lift, front tilt, and adjustable arm caps.
- All freestanding L shaped reception desks to have 42" high transaction top, return to support computer keyboard tray, monitor, and house built-in CPU space and 2 pedestals – 1:BBF/1:FF.
- All freestanding L shaped desks to have 2 pedestals- 1:BBF/1:FF. Return to support computer keyboard tray, monitor, and CPU unit.
- All freestanding desks to have 2 pedestals, 1:BBF/1:FF. Desk should support keyboard, monitor, and CPU unit.
- All freestanding credenza units to have knee holespace with 2 pedestals – 1:BBF/1-FF. Credenza to support computer keyboard tray, monitor, and CPU unit. All hutch units to provide enclosed storage above, task lights, and tackable area. Hutch to be screw mounted to credenza unit.
- Each designated workstation of any type to have at a minimum 1-2 drawer file cabinet
- Modular systems furniture:
 - Acoustic rated panels with nominal width dimensions of 24", 30", 36", 42", & 48". Panels should be no less than 60" in height but can be up to 84" where panels with doors are indicated.
 - Electrified Panels are to be 4 circuit system acoustic rated panels with nominal width dimensions of 24", 30", 36", 42", & 48".

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- Work surfaces nominal width dimensions should be compatible with panel widths. All work surfaces shall mount end to end on panel brackets. Depth of surfaces shall be 24" except if corner work surfaces are utilized. Thickness of work surfaces is to be no less than 1 1/8".
- Cantilevers, brackets, plates, and connectors to be metal-to-metal connections.
- Overhead storage units – nominal width dimensions should be compatible with panel widths. Flipper door to be open inside of box, so top of overhead can be used for additional storage. All doors to be keyed alike per workstation.
- Overhead shelves - nominal width dimensions should be compatible with panel widths. All shelf pans to be metal. All side brackets to be minimum 6" height.
- Task lights - Maximum width to overhead unit, switch to front, plug-in to electrified panels.
- Pedistals - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed alike for each workstation
- Pencil drawers - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed alike for each workstation
- Keyboard tray - Solid metal construction, full extension in ball bearing ball suspension. Arm to be adjustable in 3 directions – up & down; in & out; tilt & flat.

Finishes:

- **Floor:** Multi-colored carpeting with at least 4 color yarns in loop construction to hide wear and staining; action back required. 28 oz weight.
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Door frames:** Dark color to match base
- **Walls:** Painted with a light color that can be easily repainted. This color will be the building standard.
- **Ceiling:** Standard lay-in type acoustic ceiling with perforated texture to hide marks and chips, flat profile.

Special Design Features:

- Reception/waiting area is required.

Functional Requirements - Attachment B

- Secretarial administrative work area is required.
- Private office space is required for private meetings and interviews.
- Space and appropriate cabinets/units is needed for storage of publications, award materials, presentation materials, and ceremonial items.
- Custom millwork kitchen area.

Volume 4

Functional Requirements - Attachment B

Garrison Command Section

Description:

- Manages post operating functions and tenant support requirements. Coordinates with Command Section to provide support for training mission.
- Garrison Commander and Deputy Garrison Commander require a shared conference room to conduct joint meeting with senior staff.
- Garrison Command Section will be in somewhat close proximity to the Command Suite and Command Conference Room, but not adjacent.
- Finishes and furnishings will be required that reflect this image.

Anticipate Personnel: 5_8 (AM#10)

General Specifications:

- Lockable glazed double doors, anodized bronze finish aluminum, with command insignia signage on tempered glass.
- Telephone/data connections at each desk.
- Space will be sized to accommodate the identified function while permitting ease of circulation and ADA requirements.
- Space to be conditioned with heating, cooling, and ventilation.
- Each desk to have one task chair: casters with pneumatic lift, front tilt, and adjustable arm caps.
- All freestanding L shaped reception desks to have 42" high transaction top, return to support computer keyboard tray, monitor, and house built-in CPU space and 2 pedestals – 1:BBF/1:FF.
- All freestanding L shaped desks to have 2 pedestals- 1:BBF/1:FF. Return to support computer keyboard tray, monitor, and CPU unit.
- All freestanding desks to have 2 pedestals, 1:BBF/1:FF. Desk should support keyboard, monitor, and CPU unit.
- All freestanding credenza units to have knee hole space with 2 pedestals – 1:BBF/1-FF. Credenza to support computer keyboard tray, monitor, and CPU unit. All hutch units to provide enclosed storage above, task lights, and tackable area. Hutch to be screw mounted to credenza unit.
- Each designated workstation of any type to have at a minimum 1-2 drawer file cabinet
- Modular systems furniture.
- Acoustic rated panels with nominal width dimensions of 24", 30", 36", 42", & 48". Panels should be no less than 60" in height but can be up to 84" where panels with doors are indicated.
- Electrified Panels are to be 4 circuit system acoustic rated panels with nominal width dimensions of 24", 30", 36", 42", & 48".
- Work surfaces nominal width dimensions should be compatible with panel widths. All work surfaces shall mount end to end on panel brackets. Depth

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of surfaces shall be 24" except if corner work surfaces are utilized.
Thickness of work surfaces is to be no less than 1 1/8".

- Cantilevers, brackets, plates, and connectors to be metal to metal connections.
- Overhead storage units – nominal width dimensions should be compatible with panel widths. Flipper door to be open inside of box, so top of overhead can be used for additional storage. All doors to be keyed alike per workstation.
- Overhead shelves - nominal width dimensions should be compatible with panel widths all shelf pans to be metal. All side brackets to be minimum 6" height.
- Task lights - Maximum width to overhead unit, switch to front, plug-in to electrified panels.
- Pedistals - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed alike for each workstation
- Pencil drawers - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed alike for each workstation
- Keyboard tray - Solid metal construction, full extension in ball bearing ball suspension. Arm to be adjustable in 3 directions – up & down; in & out; tilt & flat.

Finishes:

- **Floor:** Plush multi-color/pattern carpet 32oz minimum. Compatible solid color border carpet at same pile height
- **Base:** Stained hardwood with routed detailed edge
- **Door Frames:** Stained hardwood compatible with base
- **Walls:** Vinyl/fabric wallcover; wood wallcover. Paint with a light color that can be easily matched.
- **Chair Rail:** Stained hardwood with routed detained base. Stain to match door frames and base
- **Ceiling:** Acoustic serving tile with recess grid and edge detail

Special Design Features:

- Garrison Command Suite should be compatible with the Command Section with the use of fabric wallcover, wood wallcover, wood moldings,

Functional Requirements - Attachment B

and associated trims.

- Special design detail should be given to the showcase the Garrison Commander's various artwork, military awards, and special interest items.
- 2 administrative assistant workstations are required
- Reception/waiting area is required.

Functional Requirements - Attachment B

Internal Review and Audit Compliance (IRACO)

Description:

- IRACO conducts confidential reviews and audits for all directorates, personnel, or procedures that are implemented on the base.

Anticipate Personnel: 6- 8 (AM#10)

General Specifications:

- Telephone/data connections at each desk.
- Space will be sized to accommodate the identified function while permitting ease of circulation and ADA requirements.
- Space to be conditioned with heating, cooling, and ventilation.
- Each desk to have one task chair: casters with pneumatic lift, front tilt, and adjustable arm caps.
- All freestanding L shaped reception desks to have 42" high transaction top, return to support computer keyboard tray, monitor, and house built-in CPU space and 2 pedestals – 1:BBF/1:FF.
- All freestanding L shaped desks to have 2 pedestals- 1:BBF/1:FF. Return to support computer keyboard tray, monitor, and CPU unit.
- All freestanding desks to have 2 pedestals, 1:BBF/1:FF. Desk should support keyboard, monitor, and CPU unit.
- All freestanding credenza units to have knee holespace with 2 pedestals – 1:BBF/1-FF. Credenza to support computer keyboard tray, monitor, and CPU unit. All hutch units to provide enclosed storage above, task lights, and tackable area. Hutch to be screw mounted to credenza unit.
- Each designated workstation of any type to have at a minimum 1-2 drawer file cabinet
- Modular systems furniture :
 - Acoustic rated panels with nominal width dimensions of 24", 30", 36", 42", & 48". Panels should be no less than 60" in height but can be up to 84" where panels with doors are indicated.
 - Electrified Panels are to be 4 circuit system acoustic rated panels with nominal width dimensions of 24", 30", 36", 42", & 48".
 - Work surfaces nominal width dimensions should be compatible with panel widths. All work surfaces shall mount end to end on panel brackets. Depth of surfaces shall be 24" except if corner work surfaces are utilized. Thickness of work surfaces is to be no less than 1 1/8".
 - Cantilevers, brackets, plates, and connectors to be metal to metal connections.
 - Overhead storage units – nominal width dimensions should be compatible with panel widths. Flipper door to be open inside of box, so top of overhead can be used for additional storage. All doors to be keyed alike per workstation.

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- Overhead shelves - nominal width dimensions should be compatible with panel widths. All shelf pans to be metal. All side brackets to be minimum 6" height.
- Task lights - Maximum width to overhead unit, switch to front, plug-in to electrified panels.
- Pedistals - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed alike for each workstation
- Pencil drawers - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed alike for each workstation
- Keyboard tray - Solid metal construction, full extension in ball bearing ball suspension. Arm to be adjustable in 3 directions – up & down; in & out; tilt & flat.

Finishes:

- **Floor:** Multi-colored carpeting with at least 4 color yarns in loop construction to hide wear and staining; action back required. 28 oz weight.
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Door frames:** Dark color to match base
- **Walls:** Painted with a light color that can be easily repainted. This color will be the building standard.
- **Ceiling:** Standard lay-in type acoustic ceiling with perforated texture to hide marks and chips, flat profiles

Special Design Features:

- Required enclosed / private waiting area for the protection of visitors.
- Visitor office to have acoustic wallcover to provide STC rating of 45 or better.
- All personnel will be housed in private offices to support their special functions
Visitor's office that can be secured up to 3 months while conducting review or audits. It can also used as an interview room.
- Accommodations for closed circuit television monitors.
- Custom millwork Admin. desks.

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Directorate of Logistics (DOL)

Description:

Anticipate Personnel: 12

General Specifications:

- Telephone/data connections at each desk.
- Space will be sized to accommodate the identified function while permitting ease of circulation and ADA requirements.
- Space to be conditioned with heating, cooling, and ventilation.
- Each desk to have one task chair: casters with pneumatic lift, front tilt, and adjustable arm caps.
- All freestanding L shaped reception desks to have 42" high transaction top, return to support computer keyboard tray, monitor, and house built-in CPU space and 2 pedestals – 1:BBF/1:FF.
- All freestanding L shaped desks to have 2 pedestals- 1:BBF/1:FF. Return to support computer keyboard tray, monitor, and CPU unit.
- All freestanding desks to have 2 pedestals, 1:BBF/1:FF. Desk should support keyboard, monitor, and CPU unit.
- All freestanding credenza units to have knee holespace with 2 pedestals – 1:BBF/1-FF. Credenza to support computer keyboard tray, monitor, and CPU unit. All hutch units to provide enclosed storage above, task lights, and tackable area. Hutch to be screw mounted to credenza unit.
- Each designated workstation of any type to have at a minimum 1-2 drawer file cabinet
- Modular systems furniture :
 - Acoustic rated panels with nominal width dimensions of 24", 30", 36", 42", & 48". Panels should be no less than 60" in height but can be up to 84" where panels with doors are indicated.
 - Electrified Panels are to be 4 circuit system acoustic rated panels with nominal width dimensions of 24", 30", 36", 42", & 48".
 - Work surfaces nominal width dimensions should be compatible with panel widths. All work surfaces shall mount end to end on panel brackets. Depth of surfaces shall be 24" except if corner work surfaces are utilized. Thickness of work surfaces is to be no less than 1 1/8".
 - Cantilievers, brackets, plates, and connectors to be metal to metal connections.
 - Overhead storage units – nominal width dimensions should be compatible with panel widths. Flipper door to be open inside of box, so top of overhead can be used for additional storage. All doors to be keyed alike per workstation.

Functional Requirements - Attachment B

- Overhead shelves - nominal width dimensions should be compatible with panel widths. All shelf pans to be metal. All side brackets to be minimum 6" height.
- Task lights - Maximum width to overhead unit, switch to front, plug-in to electrified panels.
- Pedistals - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed alike for each workstation
- Pencil drawers - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed alike for each workstation
- Keyboard tray - Solid metal construction, full extension in ball bearing ball suspension. Arm to be adjustable in 3 directions – up & down; in & out; tilt & flat.

Finishes:

- **Floor:** Multi-colored carpeting with at least 4 color yarns in loop construction to hide wear and staining; action back required. 28 oz weight.
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Door frames:** Dark color to match base
- **Walls:** Painted with a light color that can be easily repainted. This color will be the building standard.
- **Ceiling:** Standard lay-in type acoustic ceiling with perforated texture to hide marks and chips, flat profile.

Special Design Features:

Functional Requirements - Attachment B

Strength Management (GI/AG)

Description:

- GI /AG is involved with processing new military arrivals on base and retention of existing military staff.
- Require interview rooms that can be shared.

Anticipate Personnel: 23

General Specifications:

- Telephone/data connections at each desk.
- Space will be sized to accommodate the identified function while permitting ease of circulation and ADA requirements.
- Space to be conditioned with heating, cooling, and ventilation.
- Each desk to have one task chair: casters with pneumatic lift, front tilt, and adjustable arm caps.
- All freestanding L shaped reception desks to have 42" high transaction top, return to support computer keyboard tray, monitor, and house built-in CPU space and 2 pedestals – 1:BBF/1:FF.
- All freestanding L shaped desks to have 2 pedestals- 1:BBF/1:FF. Return to support computer keyboard tray, monitor, and CPU unit.
- All freestanding desks to have 2 pedestals, 1:BBF/1:FF. Desk should support keyboard, monitor, and CPU unit.
- All freestanding credenza units to have knee holespace with 2 pedestals – 1:BBF/1-FF. Credenza to support computer keyboard tray, monitor, and CPU unit. All hutch units to provide enclosed storage above, task lights, and tackable area. Hutch to be screw mounted to credenza unit.
- Each designated workstation of any type to have at a minimum 1-2 drawer file cabinet
- Modular systems furniture :
 - Acoustic rated panels with nominal width dimensions of 24", 30", 36", 42", & 48". Panels should be no less than 60" in height but can be up to 84" where panels with doors are indicated.
 - Electrified Panels are to be 4 circuit system acoustic rated panels with nominal width dimensions of 24", 30", 36", 42", & 48".
 - Work surfaces nominal width dimensions should be compatible with panel widths. All work surfaces shall mount end to end on panel brackets. Depth of surfaces shall be 24" except if corner work surfaces are utilized. Thickness of work surfaces is to be no less than 1 1/8".
 - Cantilevers, brackets, plates, and connectors to be metal to metal connections.
 - Overhead storage units – nominal width dimensions should be compatible with panel widths. Flipper door to be open inside of box, so top of overhead

Functional Requirements - Attachment B

can be used for additional storage. All doors to be keyed alike per workstation.

- Overhead shelves - nominal width dimensions should be compatible with panel widths. All shelf pans to be metal. All side brackets to be minimum 6" height.
- Task lights - Maximum width to overhead unit, switch to front, plug-in to electrified panels.
- Pedistals - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed alike for each workstation
- Pencil drawers - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed alike for each workstation
- Keyboard tray - Solid metal construction, full extension in ball bearing ball suspension. Arm to be adjustable in 3 directions – up & down; in & out; tilt & flat.

Finishes:

- **Floor:** Multi-colored carpeting with at least 4 color yarns in loop construction to hide wear and staining; action back required. 28 oz weight.
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Doors & Frames:** Solid core wood doors with hollow metal frames. Dark color to match base
- **Walls:** Painted with a light color that can be easily repainted. This color will be the building standard.
- **Ceiling:** Standard lay-in type acoustic ceiling with perforated texture to hide marks and chips, flat profile.

Special Design Features:

Functional Requirements - Attachment B

Directorate of Information Management (DOIM)

Description:

- DOIM maintains flow of information for all base and training directorates.
- Information assurance officers meet for “think tank” sessions and require a special conference room for this function.

Anticipate Personnel: 8

General Specifications:

- Telephone/data connections at each desk.
- Space will be sized to accommodate the identified function while permitting ease of circulation and ADA requirements.
- Space to be conditioned with heating, cooling, and ventilation.
- Each desk to have one task chair: casters with pneumatic lift, front tilt, and adjustable arm caps.
- All freestanding L shaped reception desks to have 42” high transaction top, return to support computer keyboard tray, monitor, and house built-in CPU space and 2 pedestals – 1:BBF/1:FF.
- All freestanding L shaped desks to have 2 pedestals- 1:BBF/1:FF. Return to support computer keyboard tray, monitor, and CPU unit.
- All freestanding desks to have 2 pedestals, 1:BBF/1:FF. Desk should support keyboard, monitor, and CPU unit.
- All freestanding credenza units to have knee holespace with 2 pedestals – 1:BBF/1-FF. Credenza to support computer keyboard tray, monitor, and CPU unit. All hutch units to provide enclosed storage above, task lights, and tackable area. Hutch to be screw mounted to credenza unit.
- Each designated workstation of any type to have at a minimum 1-2 drawer file cabinet
- Modular systems furniture :
 - Acoustic rated panels with nominal width dimensions of 24”, 30”, 36”, 42”, & 48”. Panels should be no less than 60” in height but can be up to 84” where panels with doors are indicated.
 - Electrified Panels are to be 4 circuit system acoustic rated panels with nominal width dimensions of 24”, 30”, 36”, 42”, & 48”.
 - Work surfaces nominal width dimensions should be compatible with panel widths. All work surfaces shall mount end to end on panel brackets. Depth of surfaces shall be 24” except if corner work surfaces are utilized. Thickness of work surfaces is to be no less than 11/8”.
 - Cantilevers, brackets, plates, and connectors to be metal to metal connections.
 - Overhead storage units – nominal width dimensions should be compatible with panel widths. Flipper door to be open inside of box, so top of overhead

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Functional Requirements - Attachment B

- can be used for additional storage. All doors to be keyed alike per workstation.
- Overhead shelves - nominal width dimensions should be compatible with panel widths. All shelf pans to be metal. All side brackets to be minimum 6" height.
 - Task lights - Maximum width to overhead unit, switch to front, plug-in to electrified panels.
 - Pedistals - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed like for each workstation
 - Pencil drawer - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed alike for each workstation
 - Keyboard tray - Solid metal construction, full extension in ball bearing ball suspension. Arm to be adjustable in 3 directions – up & down; in & out; tilt & flat.

Finishes:

- **Floor:** Multi-colored carpeting with at least 4 color yarns in loop construction to hide wear and staining; action back required 28 oz weight.
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Door frames:** Dark color to match base
- **Walls:** Painted with a light color that can be easily repainted. This color will be the building standard.
- **Ceiling:** Standard lay-in type acoustic ceiling with perforated texture to hide marks and chips, flat profile.

~~Special Design Features:~~

~~(AM#10) "Think Tank" Room for 6 people with conference amenities to facilitate specialized creative, brainstorming, "think tank" sessions including marker board, tack walls, and data and telephone connections.~~

Ground Floor Mail Room: Mail slots 21" W x 10-3/4"x D x 14" H- zousers locked box for outgoing mail. Fill boxes from back side. FedEx drop box required. Drop box for personal mail. Cupboard for parcel pickup cart storage.

Functional Requirements - Attachment B

Installation Planning & Business Operations (IP & BO)

Description: “Installation Support Office” Strategic planning and installation Quality & Business functions and support of senior leaders.

Anticipate Personnel: 21

General Specifications:

- Telephone/data connections at each desk.
- Space will be sized to accommodate the identified function while permitting ease of circulation and ADA requirements.
- Space to be conditioned with heating, cooling, and ventilation.
- Each desk to have one task chair: casters with pneumatic lift, front tilt, and adjustable arm caps.
- All freestanding L shaped reception desks to have 42” high transaction top, return to support computer keyboard tray, monitor, and house built-in CPU space and 2 pedestals – 1:BBF/1:FF.
- All freestanding L shaped desks to have 2 pedestals- 1:BBF/1:FF. Return to support computer keyboard tray, monitor, and CPU unit.
- All freestanding desks to have 2 pedestals, 1:BBF/1:FF. Desk should support keyboard, monitor, and CPU unit.
- All freestanding credenza units to have knee holespace with 2 pedestals – 1:BBF/1-FF. Credenza to support computer keyboard tray, monitor, and CPU unit. All hutch units to provide enclosed storage above, task lights, and tackable area. Hutch to be screw mounted to credenza unit.
- Each designated workstation of any type to have at a minimum 1-2 drawer file cabinet
- Modular systems furniture :
 - Acoustic rated panels with nominal width dimensions of 24”, 30”, 36”, 42”, & 48”. Panels should be no less than 60” in height but can be up to 84” where panels with doors are indicated.
 - Electrified Panels are to be 4 circuit system acoustic rated panels with nominal width dimensions of 24”, 30”, 36”, 42”, & 48”.
 - Work surfaces nominal width dimensions should be compatible with panel widths. All work surfaces shall mount end to end on panel brackets. Depth of surfaces shall be 24” except if corner work surfaces are utilized. Thickness of work surfaces is to be no less than 1 1/8”.
 - Cantilevers, brackets, plates, and connectors to be metal to metal connections.
 - Overhead storage units – nominal width dimensions should be compatible with panel widths. Flipper door to be open inside of box, so top of overhead

can be used for additional storage. All doors to be keyed alike per workstation.

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- Overhead shelves - nominal width dimensions should be compatible with panel widths. All shelf pans to be metal. All side brackets to be minimum 6" height.
- Task lights - Maximum width to overhead unit, switch to front, plug-in to electrified panels.
- Pedistals - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed alike for each workstation
- Pencil drawers - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed alike for each workstation
- Keyboard tray - Solid metal construction, full extension in ball bearing ball suspension. Arm to be adjustable in 3 directions – up & down; in & out; tilt & flat.

Finishes:

- **Floor:** Multi-colored carpeting with at least 4 color yarns in loop construction to hide wear and staining; action back required. 28 oz weight.
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Door frames:** Dark color to match base
- **Walls:** Painted with a light color that can be easily repainted. This color will be the building standard.
- **Ceiling:** Standard lay-in type acoustic ceiling with perforated texture to hide marks and chips, flat profile.

Special Design Features:

Functional Requirements - Attachment B

Directorate of Public Works (DPW)

Description:

- DPW provides facilities interface for the entire Base. They have contractors, vendors and Base staff in their office throughout the day.
- DPW provides documents and Archive information regarding Base infrastructure.
- DPW also provides turn-key project management for Base projects.

Anticipate Personnel: ~~28~~ 39 (AM#10)

General Specifications:

- Telephone/data connections at each desk.
- Space will be sized to accommodate the identified function while permitting ease of circulation and ADA requirements.
- Space to be conditioned with heating, cooling, and ventilation.
- Each desk to have one task chair: casters with pneumatic lift, front tilt, and adjustable arm caps.
- All freestanding L shaped reception desks to have 42" high transaction top, return to support computer keyboard tray, monitor, and house built-in CPU space and 2 pedestals – 1:BBF/1:FF.
- All freestanding L shaped desks to have 2 pedestals- 1:BBF/1:FF. Return to support computer keyboard tray, monitor, and CPU unit.
- All freestanding desks to have 2 pedestals, 1:BBF/1:FF. Desk should support keyboard, monitor, and CPU unit.
- All freestanding credenza units to have knee hole space with 2 pedestals – 1:BBF/1-FF. Credenza to support computer keyboard tray, monitor, and CPU unit. All hutch units to provide enclosed storage above, task lights, and tackable area. Hutch to be screw mounted to credenza unit.
- Each designated workstation of any type to have at a minimum 1-2 drawer file cabinet
- Modular systems furniture :
 - Acoustic rated panels with nominal width dimensions of 24", 30", 36", 42", & 48". Panels should be no less than 60" in height but can be up to 84" where panels with doors are indicated.
 - Electrified Panels are to be 4 circuit system acoustic rated panels with nominal width dimensions of 24", 30", 36", 42", & 48".
 - Work surfaces nominal width dimensions should be compatible with panel widths. All work surfaces shall mount end to end on panel brackets. Depth of surfaces shall be 24" except if corner work surfaces are utilized. Thickness of work surfaces is to be no less than 1 1/8".
 - Cantilievers, brackets, plates, and connectors to be metal to metal connections.

Functional Requirements - Attachment B

- Overhead storage units – nominal width dimensions should be compatible with panel widths. Flipper door to be open inside of box, so top of overhead can be used for additional storage. All doors to be keyed alike per workstation.
- Overhead shelves - nominal width dimensions should be compatible with panel widths. All shelf pans to be metal. All side brackets to be minimum 6" height.
- Task lights - Maximum width to overhead unit, switch to front, plug-in to electrified panels.
- Pedistals - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed alike for each workstation
- Pencil drawers - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed alike for each workstation
- Keyboard tray - Solid metal construction, full extension in ball bearing ball suspension. Arm to be adjustable in 3 directions – up & down; in & out; tilt & flat.

Finishes:

- **Floor:** Multi-colored carpeting with at least 4 color yarns in loop construction to hide wear and staining; action back required. 28 oz weight.
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Door frames:** Dark color to match base
- **Walls:** Painted with a light color that can be easily repainted. This color will be the building standard.
- **Ceiling:** Standard lay-in type acoustic ceiling with perforated texture to hide marks and chips, flat profile.

Special Design Features:

- Require library / reference area within their offices, and some document storage for current projects.
- 4 CADD stations required in Reproduction room.

Functional Requirements - Attachment B

- All workstations require minimum 30" depth work surfaces to accommodate project documents and drawings.
- Archive facilities will be housed in another off-site location.

Reproduction/Documents Room (DPW)

Description:

- Requires space to store, review and retrieve large documents, sort and stack large documents and reproduce by blueprint, printer or plotter method.
- 40 Flat Files will be housed in the current project / archive room, layout space adjoining and required hanging TSP files.

General Specifications:

- Telephone/data connections at each desk.
- Space will be sized to accommodate the identified function while permitting ease of circulation and ADA requirements.
- Space to be conditioned with heating, cooling, and ventilation.
- Each desk to have one task chair: casters with pneumatic lift, front tilt, and adjustable arm caps.
- All freestanding desks to have 2 pedestals, 1:BBF/1:FF. Desk should support keyboard, monitor, and CPU unit.

Finishes:

- **Floor:** VCT required – 70% Field Color / 15% Accent Color I / 15% Accent Color
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Door frames:** Dark color to match base
- **Walls:** 54" wide Wallcover Class A Type II
- **Ceiling:** Standard lay-in type acoustic ceiling with perforated texture to hide marks and chips, flat profile.

Special Design Features:

- Storage area for ammonia, toner and paper
- Special Area designated for (3) large recycle trash containers, and (1) large regular trash container.
- Acoustic wallcover to be used at plotter locations.
- Technical library should be used in adjacent space.

Volume 4

Functional Requirements - Attachment B

- DPW can share conference facilities.

Directorate of Contracting (DOC)

Description:

- Provide services for the base as contract liaison to vendors and suppliers requesting to do work on the base.
- Review existing contracts, to update, review or terminate.
- Bid openings.

Anticipate Personnel: ~~26~~ 25 (AM#10)

General Specifications:

- Telephone/data connections at each desk.
- Space will be sized to accommodate the identified function while permitting ease of circulation and ADA requirements.
- Space to be conditioned with heating, cooling, and ventilation.
- Each desk to have one task chair: casters with pneumatic lift, front tilt, and adjustable arm caps.
- All freestanding L shaped reception desks to have 42" high transaction top, return to support computer keyboard tray, monitor, and house built-in CPU space and 2 pedestals – 1:BBF/1:FF.
- All freestanding L shaped desks to have 2 pedestals- 1:BBF/1:FF. Return to support computer keyboard tray, monitor, and CPU unit.
- All freestanding desks to have 2 pedestals, 1:BBF/1:FF. Desk should support keyboard, monitor, and CPU unit.
- All freestanding credenza units to have knee hole space with 2 pedestals – 1:BBF/1-FF. Credenza to support computer keyboard tray, monitor, and CPU unit. All hutch units to provide enclosed storage above, task lights, and tackable area. Hutch to be screw mounted to credenza unit.
- Each designated workstation of any type to have at a minimum 1-2 drawer file cabinet
- Modular systems furniture :
 - Acoustic rated panels with nominal width dimensions of 24", 30", 36", 42", & 48". Panels should be no less than 60" in height but can be up to 84" where panels with doors are indicated.
 - Electrified Panels are to be 4 circuit system acoustic rated panels with nominal width dimensions of 24", 30", 36", 42", & 48".
 - Work surfaces nominal width dimensions should be compatible with panel widths. All work surfaces shall mount end to end on panel brackets. Depth of surfaces shall be 24" except if corner work surfaces are utilized. Thickness of work surfaces is to be no less than 1 1/8".

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- Cantilevers, brackets, plates, and connectors to be metal to metal connections.
- Overhead storage units – nominal width dimensions should be compatible with panel widths. Flipper door to be open inside of box, so top of overhead can be used for additional storage. All doors to be keyed alike per workstation.
- Overhead shelves - nominal width dimensions should be compatible with panel widths. All shelf pans to be metal. All side brackets to be minimum 6" height.
- Task lights - Maximum width to overhead unit, switch to front, plug-in to electrified panels.
- Pedistals - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed alike for each workstation
- Pencil drawers - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed alike for each workstation
- Keyboard tray - Solid metal construction, full extension in ball bearing ball suspension. Arm to be adjustable in 3 directions – up & down; in & out; tilt & flat.

Finishes:

- **Floor:** Multi-colored carpeting with at least 4 color yarns in loop construction to hide wear and staining; action back required. 28 oz weight.
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Door frames:** Dark color to match base
- **Walls:** Painted with a light color that can be easily repainted. This color will be the building standard.
- **Ceiling:** Standard lay-in type acoustic ceiling with perforated texture to hide marks and chips, flat profile.

Special Design Features:

- Require conference facility for 15 people for bid opening. This space can be a shared facility.
- Training room to seat 30-40 people for credit card user classes.

Functional Requirements - Attachment B

(AM#8)

- Provide 24" X 48" computer workstations, freestanding with ATK finishes in lab areas for Team A and Team B.

Civilian Personnel (CPAC)

Description:

- CPAC is the point of contact for all civilians working on the base or visiting the base. They are required to post all positions, maintain personal records, continue retention efforts on behalf of the base, provide ongoing training of civilians and provide labor relations and wage review boards.
- Computer training 10 stations required – can be shared within common area, space needs to be accessible within 24-hour timeline for daily training.
- Labor relations & wage review conference room needs to be a separate facility for CPAC. The use of this room may be ongoing for up to 3 months.
- Touch screen job information center terminals will be placed at elevator lobby locations on the first and third floor of the building.
- Waiting room needs to accommodate tablet armchairs for applicants as well as a children's area for family use.

Anticipate Personnel: 23

General Specifications:

- Telephone/data connections at each desk.
- Space will be sized to accommodate the identified function while permitting ease of circulation and ADA requirements.
- Space to be conditioned with heating, cooling, and ventilation.
- Each desk to have one task chair: casters with pneumatic lift, front tilt, and adjustable arm caps.
- All freestanding L shaped reception desks to have 42" high transaction top, return to support computer keyboard tray, monitor, and house built-in CPU space and 2 pedestals – 1:BBF/1:FF.
- All freestanding L shaped desks to have 2 pedestals- 1:BBF/1:FF. Return to support computer keyboard tray, monitor, and CPU unit.
- All freestanding desks to have 2 pedestals, 1:BBF/1:FF. Desk should support keyboard, monitor, and CPU unit.
- All freestanding credenza units to have knee hole space with 2 pedestals – 1:BBF/1-FF. Credenza to support computer keyboard tray, monitor, and CPU unit. All hutch units to provide enclosed storage above, task lights, and tackable area. Hutch to be screw mounted to credenza unit.

Functional Requirements - Attachment B

- Each designated workstation of any type to have at a minimum 1-2 drawer file cabinet
- Modular systems furniture :
 - Acoustic rated panels with nominal width dimensions of 24", 30", 36", 42", & 48". Panels should be no less than 60" in height but can be up to 84" where panels with doors are indicated.
 - Electrified Panels are to be 4 circuit system acoustic rated panels with nominal width dimensions of 24", 30", 36", 42", & 48".
 - Work surfaces nominal width dimensions should be compatible with panel widths. All work surfaces shall mount end to end on panel brackets. Depth of surfaces shall be 24" except if corner work surfaces are utilized. Thickness of work surfaces is to be no less than 1 1/8".
 - Cantilievers, brackets, plates, and connectors to be metal to metal connections.
 - Overhead storage units – nominal width dimensions should be compatible with panel widths. Flipper door to be open inside of box, so top of overhead can be used for additional storage. All doors to be keyed alike per workstation.
 - Overhead shelves - nominal width dimensions should be compatible with panel widths. All shelf pans to be metal. All side brackets to be minimum 6" height.
- Task lights - Maximum width to overhead unit, switch to front, plug-in to electrified panels.
- Pedistals - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed alike for each workstation
- Pencil drawers - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed alike for each workstation
- Keyboard tray - Solid metal construction, full extension in ball bearing ball suspension. Arm to be adjustable in 3 directions – up & down; in & out; tilt & flat.

Finishes:

- **Floor:** Multi-colored carpeting with at least 4 color yarns in loop construction to hide wear and staining; action back required. 28 oz weight.
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Door frames:** Dark color to match base
- **Walls:** Painted with a light color that can be easily repainted. This

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Functional Requirements - Attachment B

color will be the building standard.
Acoustic wallcover in waiting area.

- **Ceiling:** Standard lay-in type acoustic ceiling with perforated texture to hide marks and chips, flat profile.

Special Design Features:

- CPAC requires a separate copier area for sensitive copying and mail distribution.
- Server room required for special system computer.
- Large storage room to house 75 file cabinets, VCT flooring.
- Investigator needs to have alternate means of access into building.
- Existing touch screen terminals shall be moved from existing location. Provide electrical, telephone and data connections at (AM#10) ~~elevator lobby of first and third floors.~~ waiting area of CPAC on third floor.

Functional Requirements - Attachment B

Training Rooms

Description:

- Training rooms are required to be shared but lockable facilities located in the central core of the building, within easy access of the elevator lobbies.
- Windows are not desirable in this space.
- Training rooms require orientation to the “Central or Front” focus of the room – the doorway should be to the rear of the room if at all possible.
- Use vinyl write-on wallcover on one wall of each room. Aluminum marker rail to be provided end to end of wall.
- Special drop down A/V screens for use with presentations.
- Furnishings to be easily reconfigured and locked into the following configurations: Lineal training tables, square group training tables, rectangular meeting tables or open center conferencing / board style.
- Chairs to be: casters with pneumatic lift

General Specifications:

- Telephone/data connections at each training table.
- Space will be sized to accommodate the identified function while permitting ease of circulation and ADA requirements.
- Space to be conditioned with heating, cooling, and ventilation.

Finishes:

- **Floor:** VCT 70% Field color, 15% Accent Color I, 15% Accent Color II
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Door frames:** Dark color to match base
- **Walls:** Painted with a light color that can be easily repainted. This color will be the building standard.
- **Ceiling:** Standard lay-in type acoustic ceiling with perforated texture to hide marks and chips, flat profile.

Special Design Features:

- Special electrical and data/com requirements will be required for this room. Outlets may be in either or both wall and floor locations.
- Provide black-out curtains for all windows.

Functional Requirements - Attachment B

File Room (CPAC)

Description:

- CPAC file room to house 75 file cabinets of various sizes.

General Specifications:

- Space will be sized to accommodate the identified function while permitting ease of circulation and ADA requirements.
- Space to be conditioned with heating, cooling, and ventilation.

Finishes:

- **Floor:** VCT 100% Field Color
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Door frames:** Dark color to match base
- **Walls:** Painted with a light color that can be easily repainted. This color will be the building standard.
- **Ceiling:** Standard lay-in type acoustic ceiling with perforated texture to hide marks and chips, flat profile.

Volume 4

Functional Requirements - Attachment B

Directorate of Community and Family Activities (DCFA)

Description:

- DCFA develops and manages human services and community programs for the base.
- Waiting area for family and children.
- Interview room can be shared space within central core of building.
- 2 safes are required for confidential documents.

Anticipate Personnel: ~~29~~ 33 (AM#10)

General Specifications:

- Telephone/data connections at each desk.
- Space will be sized to accommodate the identified function while permitting ease of circulation and ADA requirements.
- Space to be conditioned with heating, cooling, and ventilation.
- Each desk to have one task chair: casters with pneumatic lift, front tilt, and adjustable arm caps.
- All freestanding L shaped reception desks to have 42" high transaction top, return to support computer keyboard tray, monitor, and house built-in CPU space and 2 pedestals – 1:BBF/1:FF.
- All freestanding L shaped desks to have 2 pedestals- 1:BBF/1:FF. Return to support computer keyboard tray, monitor, and CPU unit.
- All freestanding desks to have 2 pedestals, 1:BBF/1:FF. Desk should support keyboard, monitor, and CPU unit.
- All freestanding credenza units to have knee-hole space with 2 pedestals – 1:BBF/1:FF. Credenza to support computer keyboard tray, monitor, and CPU unit. All hutch units to provide enclosed storage above, task lights, and tackable area. Hutch to be screw mounted to credenza unit.
- Each designated workstation of any type to have at a minimum 1-2 drawer file cabinet
- Modular systems furniture.
- Acoustic rated panels with nominal width dimensions of 24", 30", 36", 42", & 48". Panels should be no less than 60" in height but can be up to 84" where panels with doors are indicated.
- Electrified Panels are to be 4 circuit system acoustic rated panels with nominal width dimensions of 24", 30", 36", 42", & 48".
- Work surfaces nominal width dimensions should be compatible with panel widths. All work surfaces shall mount end to end on panel brackets. Depth of surfaces shall be 24" except if corner work surfaces are utilized. Thickness of work surfaces is to be no less than 1 1/8".
- Cantilevers, brackets, plates, and connectors to be metal to metal connections.

Functional Requirements - Attachment B

- Overhead storage units – nominal width dimensions should be compatible with panel widths. Flipper door to be open inside of box, so top of overhead can be used for additional storage. All doors to be keyed alike per workstation.
- Overhead shelves - nominal width dimensions should be compatible with panel widths. All shelf pans to be metal. All side brackets to be minimum 6" height.
- Task lights - Maximum width to overhead unit, switch to front, plug-in to electrified panels.
- Pedistals - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed alike for each workstation
- Pencil drawers - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed alike for each workstation
- Keyboard tray - Solid metal construction, full extension in ball bearing ball suspension. Arm to be adjustable in 3 directions – up & down; in & out; tilt & flat.

Finishes:

- **Floor:** Multi-colored carpeting with at least 4 color yarns in loop construction to hide wear and staining; action back required. 28 oz weight.
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Door frames:** Dark color to match base
- **Walls:** Painted with a light color that can be easily repainted. This color will be the building standard.
- **Ceiling:** Standard lay-in type acoustic ceiling with perforated texture to hide marks and chips, flat profile.

Special Design Features:

- Separate server / mainframe, VCT flooring

Functional Requirements - Attachment B

G3-Training-Emergency Operation Center (G3/DPTMS-EOC)

Description:

- Emergency operations center is a secured facility on 24-hour readiness standby. This area of the building will be vault secured at all times.
- The VCT will be adjacent space to the EOC.
- Secured entrance is required for these spaces and a separate clearance / reception area will be located next to the elevator lobby.
- The second floor area G3-DPTMS shall have standard work environment.

Anticipate Personnel: ~~49-~~ 35 EOC (AM#10)
~~22~~ 29 G3/DPTMS (AM#10)

General Specifications:

- Telephone/data connections at each desk.
- Space will be sized to accommodate the identified function while permitting ease of circulation and ADA requirements.
- Space to be conditioned with heating, cooling, and ventilation.
- Each desk to have one task chair: castered with pneumatic lift, front tilt, and adjustable arm caps.
- All freestanding L shaped reception desks to have 42" high transaction top, return to support computer keyboard tray, monitor, and house built-in CPU space and 2 pedestals – 1:BBF/1:FF.
- All freestanding L shaped desks to have 2 pedestals- 1:BBF/1:FF. Return to support computer keyboard tray, monitor, and CPU unit.
- All freestanding desks to have 2 pedestals, 1:BBF/1:FF. Desk should support keyboard, monitor, and CPU unit.
- All freestanding credenza units to have knee-hole space with 2 pedestals – 1:BBF/1-FF. Credenza to support computer keyboard tray, monitor, and CPU unit. All hutch units to provide enclosed storage above, task lights, and tackable area. Hutch to be screw mounted to credenza unit.
- Each designated workstation of any type to have at a minimum 1-2 drawer file cabinet
- Modular systems furniture.
- Acoustic rated panels with nominal width dimensions of 24", 30", 36", 42", & 48". Panels should be no less than 60" in height but can be up to 84" where panels with doors are indicated.
- Electrified Panels are to be 4 circuit system acoustic rated panels with nominal width dimensions of 24", 30", 36", 42", & 48".

Work surfaces nominal width dimensions should be compatible with panel widths. All work surfaces shall mount end to end on panel brackets. Depth of surfaces shall be 24" except if corner work surfaces are utilized. Thickness of work surfaces is to be no less than 11/8".

Functional Requirements - Attachment B

- Cantilievers, brackets, plates, and connectors to be metal to metal connections.
- Overhead storage units – nominal width dimensions should be compatible with panel widths. Flipper door to be open inside of box, so top of overhead can be used for additional storage. All doors to be keyed alike per workstation.
- Overhead shelves - nominal width dimensions should be compatible with panel widths. All shelf pans to be metal. All side brackets to be minimum 6" height.
- Task lights - Maximum width to overhead unit, switch to front, plug-in to electrified panels.
- Pedistals - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed alike for each workstation
- Pencil drawers - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed alike for each workstation
- Keyboard tray - Solid metal construction, full extension in ball bearing ball suspension. Arm to be adjustable in 3 directions – up & down; in & out; tilt & flat.

Finishes:

- **Floor:** Multi-colored carpeting with at least 4 color yarns in loop construction to hide wear and staining; action back required. 28 oz weight.
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Door frames:** Dark color to match base
- **Walls:** Painted with a light color that can be easily repainted. This color will be the building standard.
- **Ceiling:** Standard lay-in type acoustic ceiling with perforated texture to hide marks and chips, flat profile.

Special Design Features:

- Sound absorb panels required on interior wall of EOC (inner room).
- All windows to remain in 1st floor of EOC, but interior side of windows is to be filled in with masonry 1CMU.
- Provide one visitor chair for each modular workstation.

Functional Requirements - Attachment B

- Provide 2 visitor chairs for each private office.
- Sound dampening textile window coverings on all windows in EOC.
(AM #8)
- Provide 24" X 60" computer workstations, freestanding with ATK finishes in EOC computer Tech/work room.

Quality & Assurance (Q & A) (AM#10) Delete requirement for Quality & Assurance (Q&A)

Description:

- ~~Provide quality and assurance for base functions.~~
- ~~Closer proximity to parking — inspectors are out at job sites most days.~~

Anticipate Personnel: 24

General Specifications:

- ~~Telephone/data connections at each desk.~~
- ~~Space will be sized to accommodate the identified function while permitting ease of circulation and ADA requirements.~~
- ~~Space to be conditioned with heating, cooling, and ventilation.~~
- ~~Each desk to have one task chair: casters with pneumatic lift, front tilt, and adjustable arm caps.~~
- ~~All freestanding L shaped reception desks to have 42" high transaction top, return to support computer keyboard tray, monitor, and house built-in CPU space and 2 pedestals — 1:BBF/1:FF.~~
- ~~All freestanding L shaped desks to have 2 pedestals — 1:BBF/1:FF. Return to support computer keyboard tray, monitor, and CPU unit.~~
- ~~All freestanding desks to have 2 pedestals, 1:BBF/1:FF. Desk should support keyboard, monitor, and CPU unit.~~
- ~~All freestanding credenza units to have knee hole space with 2 pedestals — 1:BBF/1:FF. Credenza to support computer keyboard tray, monitor, and CPU unit. All hutch units to provide enclosed storage above, task lights, and tackable area. Hutch to be screw mounted to credenza unit.~~
- ~~Each designated workstation of any type to have at a minimum 1-2 drawer file cabinet~~
- ~~Modular systems furniture :~~
 - ~~Acoustic rated panels with nominal width dimensions of 24", 30", 36", 42", & 48". Panels should be no less than 60" in height but can be up to 84" where panels with doors are indicated.~~
 - ~~Electrified Panels are to be 4 circuit system acoustic rated panels with nominal width dimensions of 24", 30", 36", 42", & 48".~~
 - ~~Work surfaces nominal width dimensions should be compatible with panel widths. All work surfaces shall mount end to end on panel brackets. Depth of surfaces shall be 24" except if corner work surfaces are utilized. Thickness of work surfaces is to be no less than 1 1/8".~~
 - ~~Cantilevers, brackets, plates, and connectors to be metal to metal connections.~~
 - ~~Overhead storage units — nominal width dimensions should be compatible can be used for additional storage. All doors to be keyed alike per workstation.~~

Functional Requirements - Attachment B

- Overhead shelves - nominal width dimensions should be compatible with panel widths. All shelf pans to be metal. All side brackets to be minimum 6" height.
- Task lights - Maximum width to overhead unit, switch to front, plug-in to electrified panels.
- Pedistals - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed alike for each workstation
- Pencil drawers - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed alike for each workstation
- Keyboard tray - Solid metal construction, full extension in ball bearing ball suspension. Arm to be adjustable in 3 directions – up & down; in & out; tilt & flat.

Finishes:

- **Floor:** Multi-colored carpeting with at least 4 color yarns in loop construction to hide wear and staining; action back required. 28 oz weight.
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Door frames:** Dark color to match base
- **Walls:** Painted with a light color that can be easily repainted. This color will be the building standard.
- **Ceiling:** Standard lay-in type acoustic ceiling with perforated texture to hide marks and chips, flat profile.

Special Design Features:

- Require 10x12 tool room.

Functional Requirements - Attachment B

Equal Opportunity & Equal Employment Opportunity (EO & EEO)

Description:

- EO & EEO maintain relationship with all base personnel regarding counseling, advisors, NCO services, base functions and activities.
- Quarterly shared training facility.
- Enclosed visitor area.
- Special storage room for A/V equipment, seasonal displays, learners, and handouts.
- Request all private offices because of confidential nature of the work.

Anticipate Personnel: 8

General Specifications:

- Telephone/data connections at each desk.
- Space will be sized to accommodate the identified function while permitting ease of circulation and ADA requirements.
- Space to be conditioned with heating, cooling, and ventilation.
- Each desk to have one task chair: castered with pneumatic lift, front tilt, and adjustable arm caps.
- All freestanding L shaped reception desks to have 42" high transaction top, return to support computer keyboard tray, monitor, and house built-in CPU space and 2 pedestals – 1:BBF/1:FF.
- All freestanding L shaped desks to have 2 pedestals- 1:BBF/1:FF. Return to support computer keyboard tray, monitor, and CPU unit.
- All freestanding desks to have 2 pedestals, 1:BBF/1:FF. Desk should support keyboard, monitor, and CPU unit.
- All freestanding credenza units to have knee hole space with 2 pedestals – 1:BBF/1-FF. Credenza to support computer keyboard tray, monitor, and CPU unit. All hutch units to provide enclosed storage above, task lights, and tackable area. Hutch to be screw mounted to credenza unit.
- Each designated workstation of any type to have at a minimum 1-2 drawer file cabinet
- Modular systems furniture :
 - Acoustic rated panels with nominal width dimensions of 24", 30", 36", 42", & 48". Panels should be no less than 60" in height but can be up to 84" where panels with doors are indicated.
 - Electrified Panels are to be 4 circuit system acoustic rated panels with nominal width dimensions of 24", 30", 36", 42", & 48".
 - Work surfaces nominal width dimensions should be compatible with panel widths. All work surfaces shall mount end to end on panel brackets. Depth

Functional Requirements - Attachment B

of surfaces shall be 24" except if corner work surfaces are utilized.
Thickness of work surfaces is to be no less than 1 1/8".

- Cantilevers, brackets, plates, and connectors to be metal to metal connections.
- Overhead storage units – nominal width dimensions should be compatible with panel widths. Flipper door to be open inside of box, so top of overhead can be used for additional storage. All doors to be keyed alike per workstation.
- Overhead shelves - nominal width dimensions should be compatible with panel widths. All shelf pans to be metal. All side brackets to be minimum 6" height.
- Task lights - Maximum width to overhead unit, switch to front, plug-in to electrified panels.
- Pedistals - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed alike for each workstation
- Pencil drawers - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed alike for each workstation
- Keyboard tray - Solid metal construction, full extension in ball bearing ball suspension. Arm to be adjustable in 3 directions – up & down; in & out; tilt & flat.

Finishes:

- **Floor:** Multi-colored carpeting with at least 4 color yarns in loop construction to hide wear and staining; action back required. 28 oz weight.
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Door frames:** Dark color to match base
- **Walls:** Painted with a light color that can be easily repainted. This color will be the building standard.
Acoustic wallcover at waiting areas.
- **Ceiling:** Standard lay-in type acoustic ceiling with perforated texture to hide marks and chips, flat profile.

Special Design Features:

Functional Requirements - Attachment B

- Need counseling room specifically for case meetings that can last up to one week.

Directorate of Resource Management (DRM-Comptroller)**Description:**

The directorate of Resource Management is responsible for the financial planning and management functions for the headquarters. This organization develops long range funding requirements and the annual operating budget based on requirements from all functional organizations. The comptroller establishes funds distribution plan based on allocate dollars to create an executable program. Budget analysis track performances of assigned accounts to ensure funds are executed to meet internal objectives and external OSD goals. Accounting loads accounts and certifies. Funds availability to prevent anti-deficiency situations. The directorate oversees the travel program by certifying travel orders; processing travel vouchers, and managing the government travel card functions.

Anticipate Personnel: 44**General Specifications:**

- Telephone/data connections at each desk.
- Space will be sized to accommodate the identified function while permitting ease of circulation and ADA requirements.
- Space to be conditioned with heating, cooling, and ventilation.
- Each desk to have one task chair: castered with pneumatic lift, front tilt, and adjustable arm caps.
- All freestanding L shaped reception desks to have 42" high transaction top, return to support computer keyboard tray, monitor, and house built-in CPU space and 2 pedestals – 1:BBF/1:FF.
- All freestanding L shaped desks to have 2 pedestals- 1:BBF/1:FF. Return to support computer keyboard tray, monitor, and CPU unit.
- All freestanding desks to have 2 pedestals, 1:BBF/1:FF. Desk should support keyboard, monitor, and CPU unit.
- All freestanding credenza units to have knee hole space with 2 pedestals – 1:BBF/1-FF. Credenza to support computer keyboard tray, monitor, and CPU unit. All hutch units to provide enclosed storage above, task lights, and tackable area. Hutch to be screw mounted to credenza unit.
- Each designated workstation of any type to have at a minimum 1-2 drawer file cabinet
- Modular systems furniture :
 - Acoustic rated panels with nominal width dimensions of 24", 30", 36", 42", & 48". Panels should be no less than 60" in height but can be up to 84" where panels with doors are indicated.

Functional Requirements - Attachment B

- Electrified Panels are to be 4 circuit system acoustic rated panels with nominal width dimensions of 24", 30", 36", 42", & 48".
- Work surfaces nominal width dimensions should be compatible with panel widths. All work surfaces shall mount end to end on panel brackets. Depth of surfaces shall be 24" except if corner work surfaces are utilized. Thickness of work surfaces is to be no less than 1 1/8".
- Cantilievers, brackets, plates, and connectors to be metal to metal connections.
- Overhead storage units – nominal width dimensions should be compatible with panel widths. Flipper door to be open inside of box, so top of overhead can be used for additional storage. All doors to be keyed alike per workstation.
- Overhead shelves - nominal width dimensions should be compatible with panel widths. All shelf pans to be metal. All side brackets to be minimum 6" height.
- Task lights - Maximum width to overhead unit, switch to front, plug-in to electrified panels.
- Pedestals - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed alike for each workstation
- Pencil drawers - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed alike for each workstation
- Keyboard tray - Solid metal construction, full extension in ball bearing ball suspension. Arm to be adjustable in 3 directions – up & down; in & out; tilt & flat.

Finishes:

- **Floor:** Multi-colored carpeting with at least 4 color yarns in loop construction to hide wear and staining; action back required. 28 oz weight.
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Door frames:** Dark color to match base
- **Walls:** Painted with a light color that can be easily repainted. This color will be the building standard.
- **Ceiling:** Standard lay-in type acoustic ceiling with perforated texture to hide marks and chips, flat profile.

Functional Requirements - Attachment B

Special Design Features:

- Request guest chair at each station.

Field Officer of the Day

Description:

- Controls entry into the building, 24 hour daily.

Anticipate Personnel: 3

General Specifications:

- Telephone/data connections at each desk.
- Space will be sized to accommodate the identified function while permitting ease of circulation and ADA requirements.
- Space to be conditioned with heating, cooling, and ventilation.
- Each desk to have one task chair: casters with pneumatic lift, front tilt, and adjustable arm caps.
- All freestanding desks to have 2 pedestals, 1:BBF/1:FF. Desk should support keyboard, monitor, and CPU unit.
- Each designated workstation of any type to have at a minimum 1-2 drawer file cabinet

Finishes:

- **Floor:** Multi-colored carpeting with at least 4 color yarns in loop construction to hide wear and staining; action back required. 28 oz weight.
- **Toilet Room:** Ceramic Tile
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Door frames:** Dark color to match base
- **Walls:** Vinyl Wallcover Class A Type II
- **Ceiling:** Standard lay-in type acoustic ceiling with perforated texture to hide marks and chips, flat profile.

Special Design Features:

- 24 hour facility.

Functional Requirements - Attachment B

- Sleeping area and shower area required with acoustic wallcover.
- Bed, nightstand and lockers to be provided in sleeping area.
- Personnel locker storage required.

Video Teleconferencing Center (VTC)

(AM#8)

- Existing VTC equipment at Fort Polk will be moved to this room by the Government. Contractor will coordinate telephone/date and provide electrical requirements for final connection by the Government.

Description: Facility used in times of Threat Con.

Anticipate Personnel: G3/DPTMS will staff as required.

General Specifications:

- Conference Table to seat 15 people. Internal pop-ups with power and LAN connects for notebook computers.
- High back leather chairs for conference table. Perimeter seating for 10 personnel with comfortable chairs.
- Dual podiums with microphones, clock, and control screen to facilitate briefing activities.
- Coffee/hospitality area with sink and service area. Under counter refrigerator required to store drinks and perishable food items. Storage cabinets needed to store accessory items.
- Audio/visual equipment to support state of the art computer generated briefings and video presentations. Computers, amplifiers, speakers, microphones, VCRs, DVDs, switch panels, video controllers, UPS, and other peripheral equipment to control presentation configuration and generate appropriate visual and audio presentations. Design options should consider video cube wall as display medium.
- Video teleconferencing capabilities to electronically interface with other organizations at the classified and unclassified levels. Communication circuits, video cameras, VTC bridges, COMSEC equipment, and computer systems to connect via ISDN or FTS 2000 formats
- Operator control room or area to configure equipment, load briefings, set-up VTC connections, and operate A/V software.
- Network connections to access special command management information sources.

Functional Requirements - Attachment B

- Direct TV satellite connection to access C-SPAN and news networks to obtain real time status of critical political and military world events.
- Various lighting configurations to provide the right lighting environment for open sessions, briefings with presentation graphics, video recordings, and VTC sessions.
- Separate HVAC system to maintain comfortable working environment with diffusers to reduce noise.
- Internal and external signage to indicate classification level of the meeting or presentation. Levels include Unclassified, Confidential, Secret, and Top Secret. Signage approach must be in concert with the executive status of the Command Section.

Finishes:

- **Floor:** Multi-colored carpeting with at least 4 color yarns in loop construction to hide wear and staining; action back required. 28 oz weight.
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Door frames:** Dark color to match base
- **Walls:** Vinyl wallcover Type II 20oz.
Color will be the building standard.
- **Ceiling:** Standard lay-in type acoustic ceiling with perforated texture to hide marks and chips, flat profile.

Special Design Features:

- Security sensitive area.
- Must be located to EOC.

Functional Requirements - Attachment B

Barber Shop

Description: Per government contractor / vendor.

Finishes:

- **Floor:** VCT 70% Field Tile, 15% Accent Color I, 15% Accent Color II
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Door frames:** Dark color to match base
- **Walls:** Painted with a light color that can be easily repainted. This color will be the building standard.
- **Ceiling:** Standard lay-in type acoustic ceiling with perforated texture to hide marks and chips, flat profile.

Special Design Features:

- Provide plumbing and electrical.

Functional Requirements - Attachment B

Convenience Store

Description: Per government contractor / vendor.

Finishes:

- **Floor:** VCT 70% Field Tile, 15% Accent Color I, 15% Accent Color II
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Door frames:** Dark color to match base
- **Walls:** Painted with a light color that can be easily repainted. This color will be the building standard.
- **Ceiling:** Standard lay-in type acoustic ceiling with perforated texture to hide marks and chips, flat profile.

Special Design Features:

- Exterior Door Monitor/Alarms for Security and Control

Volume 4

Functional Requirements - Attachment B

Weight/Training Room (AM#10) Delete requirement for Weight/Training Room

Description: Per government contractor / vendor.

Finishes:

- **Floor:** ~~VCT 70% Field Tile / 15% Accent Color I / 15% Accent Color II~~
- **Base:** ~~Dark color that matches door frames to hide scuff marks and fingerprints.~~
- **Door frames:** ~~Dark color to match base~~
- **Walls:** ~~Painted with a light color that can be easily repainted. This color will be the building standard.~~
- **Ceiling:** ~~Standard lay-in type acoustic ceiling with perforated texture to hide marks and chips, flat profile.~~

Special Design Features:

- Provide electrical.

Functional Requirements - Attachment B

Common Conference Rooms

Description:

- General meeting facilities for all directorates in the JRTC.
- Facilities are centrally located and understood to be shared by all directorates and visitors.

General Specifications:

- Conference Table to seat 6 to 10 people depending on room size.
- Conference room chairs to be casters with pneumatic lift, front tilt, and adjustable arm caps.
- Single podium required in each conference room.
- Network connections to access special command management information sources.
- Direct TV satellite connection to access C-SPAN and news networks to obtain real time status of critical political and military world events.
- Telephone data connections in each conference room.
- Space will be sized to accommodate the identified function while permitting ease of circulation and ADA requirements.
- Space to be conditioned with heating, cooling, and ventilation.

Finishes:

- **Floor:** Multi-colored carpeting with at least 4 color yarns in loop construction to hide wear and staining; action back required. 28 oz weight.
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Door frames:** Dark color to match base
- **Walls:** Vinyl wallcover Type II 20 oz.
- **Ceiling:** Standard lay-in type acoustic ceiling with perforated texture to hide marks and chips, flat profile.

Special Design Features:

- Non-lockable doors.

Functional Requirements - Attachment B

Copy Rooms

Description:

General Specifications:

- Telephone/data connections at each countertop.
- Space will be sized to accommodate the identified function while permitting ease of circulation and ADA requirements.
- Space to be conditioned with heating, cooling, and ventilation.
- Plastic laminate cabinets upper & lower w/ wire pulls.
- Plastic laminate countertops – self edge w/ 4” back splash.

Finishes:

- **Floor:** VCT 70% Field / 15% Accent Color I / 15% Accent Color II
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Door frames:** Dark color to match base
- **Walls:** Painted with a light color that can be easily repainted. This color will be the building standard.
- **Ceiling:** Standard lay-in type acoustic ceiling with perforated texture to hide marks and chips, flat profile.

Special Design Features:

- Special electrical for machines.

Functional Requirements - Attachment B

Break Rooms

Description:

General Specifications:

- Telephone/data connections at countertop.
- Space will be sized to accommodate the identified function while permitting ease of circulation and ADA requirements.
- Space to be conditioned with heating, cooling, and ventilation.
- Plastic laminate cabinets upper & lower w/ wire pulls.
- Plastic laminate countertops – self-edge w/ 4” back splash.

Finishes:

- **Floor:** (AM #8) Porcelain Tile
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Door frames:** Dark color to match base
- **Walls:** Painted with a light color that can be easily repainted. This color will be the building standard.
- **Ceiling:** Standard lay-in type acoustic ceiling with perforated texture to hide marks and chips, flat profile.

Special Design Features:

- Plumbing for sink.
- Special electrical for coffee machines, vending machines.

Volume 4

Functional Requirements - Attachment B

Main Entrance/Lobby

Description:

General Specifications:

- Telephone/data connections at entry.
- Space will be sized to accommodate the identified function while permitting ease of circulation and ADA requirements.
- Space to be conditioned with heating, cooling, and ventilation.

Finishes:

- **Floor:** Porcelain Tile
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Door frames:** Dark color to match base
- **Walls:** Painted with a light color that can be easily repainted. This color will be the building standard.
- **Ceiling:** Standard lay-in type acoustic ceiling with perforated texture to hide marks and chips, flat profile.

Special Design Features:

- ~~(AM#10) Provide electrical, telephone and data outlets for touchscreen terminals (CPAC) on first and third floors.~~

Functional Requirements - Attachment B

Exit Vestibules

Description:

General Specifications:

- Telephone/data connections at exit.
- Space will be sized to accommodate the identified function while permitting ease of circulation and ADA requirements.
- Space to be conditioned with heating, cooling, and ventilation.

Finishes:

- **Floor:** Porcelain Tile
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Door frames:** Dark color to match base
- **Walls:** Painted with a light color that can be easily repainted. This color will be the building standard.
- **Ceiling:** Standard lay-in type acoustic ceiling with perforated texture to hide marks and chips, flat profile.

Special Design Features:

Functional Requirements - Attachment B

Restrooms

Description:

General Specifications:

- Space will be sized to accommodate the identified function while permitting ease of circulation and ADA requirements.
- Space to be conditioned with heating, cooling, and ventilation.

Finishes:

- **Floor:** Porcelain Tile
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Door frames:** Dark color to match base
- **Walls:** Porcelain tile on wet walls repainted. This color will be the building standard.
- **Ceiling:** Standard lay-in type acoustic ceiling with perforated texture to hide marks and chips, flat profile.
- **Countertops:**

Special Design Features:

Functional Requirements - Attachment B

Storage Rooms

Description:

Anticipate Personnel:

General Specifications:

Finishes:

- **Floor:** VCT 100% Field Color
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Door frames:** Dark color to match base
- **Walls:** Painted with a light color that can be easily repainted. This color will be the building standard.
- **Ceiling:** Standard lay-in type acoustic ceiling with perforated texture to hide marks and chips, flat profile.

Special Design Features:

Functional Requirements - Attachment B

Communications Closets

Description:

General Specifications:

Finishes:

- **Floor:** Sealed concrete
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Door frames:** Dark color to match base
- **Walls:** Painted with a light color that can be easily repainted. This color will be the building standard.
- **Ceiling:**

Special Design Features:

Functional Requirements - Attachment B

Janitorial Closets

Description:

General Specifications:

Finishes:

- **Floor:** Sealed concrete
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Door frames:** Dark color to match base
- **Walls:** Painted with a light color that can be easily repainted. This color will be the building standard.
- **Ceiling:**

Special Design Features:

Functional Requirements - Attachment B

Mechanical Room

Description:

General Specifications:

Finishes:

- **Floor:** Sealed concrete
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Door frames:** Dark color to match base
- **Walls:** Painted CMU with a light color that can be easily repainted. This_color will be the building standard.
- **Ceiling:**

Special Design Features:

Functional Requirements - Attachment B

Electrical Rooms

Description:

General Specifications:

Finishes:

- **Floor:** Sealed concrete
- **Base:** Dark color that matches door frames to hide scuff marks and fingerprints.
- **Door frames:** Dark color to match base
- **Walls:** Painted with a light color that can be easily repainted. This color will be the building standard.
- **Ceiling:**

Special Design Features:

Functional Requirements - Attachment B

Chaplain (AM#10)**Description:**

- Advise the CG on the matters of religion, morals and morale as effected by religion.
- Provide chapel activities to the military community.
- Additional conference rooms available for family life counseling & training.
- Reception area for families and children.
- Storage required for religious times, family life and training materials.

Anticipate Personnel: 7**General Specifications:**

- Telephone/data connections at each desk.
- Space will be sized to accommodate the identified function while permitting ease of circulation and ADA requirements.
- Space to be conditioned with heating, cooling, and ventilation.
- Each desk to have one task chair: casters with pneumatic lift, front tilt, and adjustable arm caps.
- All freestanding L shaped reception desks to have 42" high transaction top, return to support computer keyboard tray, monitor, and house built-in CPU space and 2 pedestals – 1:BBF/1:FF.
- All freestanding L shaped desks to have 2 pedestals- 1:BBF/1:FF. Return to support computer keyboard tray, monitor, and CPU unit.
- All freestanding desks to have 2 pedestals, 1:BBF/1:FF. Desk should support keyboard, monitor, and CPU unit.
- All freestanding credenza units to have knee-hole space with 2 pedestals – 1:BBF/1-FF. Credenza to support computer keyboard tray, monitor, and CPU unit. All hutch units to provide enclosed storage above, task lights, and tackable area. Hutch to be screw mounted to credenza unit.
- Each designated workstation of any type to have at a minimum 1-2 drawer file cabinet
- Modular systems furniture.
- Acoustic rated panels with nominal width dimensions of 24", 30", 36", 42", & 48". Panels should be no less than 60" in height but can be up to 84" where panels with doors are indicated.
- Electrified Panels are to be 4 circuit system acoustic rated panels with nominal width dimensions of 24", 30", 36", 42", & 48".
- Work surfaces nominal width dimensions should be compatible with panel widths. All work surfaces shall mount end to end on panel brackets. Depth of surfaces shall be 24" except if corner work surfaces are utilized. Thickness of work surfaces is to be no less than 1 1/8".

Functional Requirements - Attachment B

- Cantilevers, brackets, plates, and connectors to be metal-to-metal connections.
- Overhead storage units – nominal width dimensions should be compatible with panel widths. Flipper door to be open inside of box, so top of overhead can be use for additional storage. All doors to be keyed alike per workstation.
- Overhead shelves - nominal width dimensions should be compatible with panel widths. All shelf pans to be metal all side brackets to be minimum 6" height.
- Task lights - Maximum width to overhead unit, switch to front, plug-in to electrified panels.
- Pedestals - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed alike for each workstation
- Pencil drawers - Solid metal construction, full extension ball bearing suspension. All drawers to have safety catch and keyed alike for each workstation
- Keyboard tray - Solid metal construction, full extension in ball bearing suspension. Arm to be adjustable in 3 directions – up & down; in & out; tilt & flat.

Finishes:

- **Floor:** Multi-colored carpeting with at least 4 color yarns in loop construction to hide wear and staining; action back required. 28 oz weight.
- **Base:** Dark color that matches doorframes to hide scuff marks and fingerprints.
- **Doorframes:** Dark color to match base
- **Walls:** Painted with a light color that can be easily repainted. This color will be the building standard.
- **Ceiling:** Standard lay-in type acoustic ceiling with perforated texture To hide marks and chips, flat profile.

Special Design Features:

- Counseling areas (2-3 rooms) with one-way glass.